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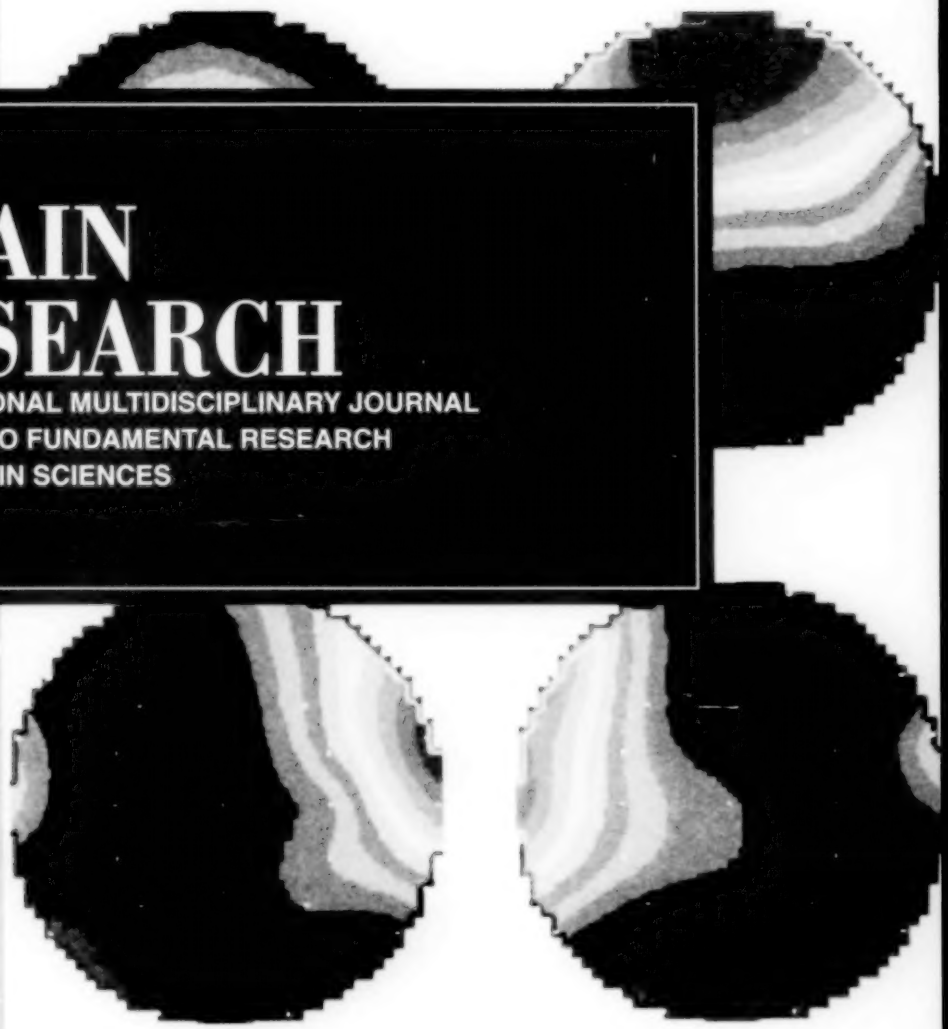

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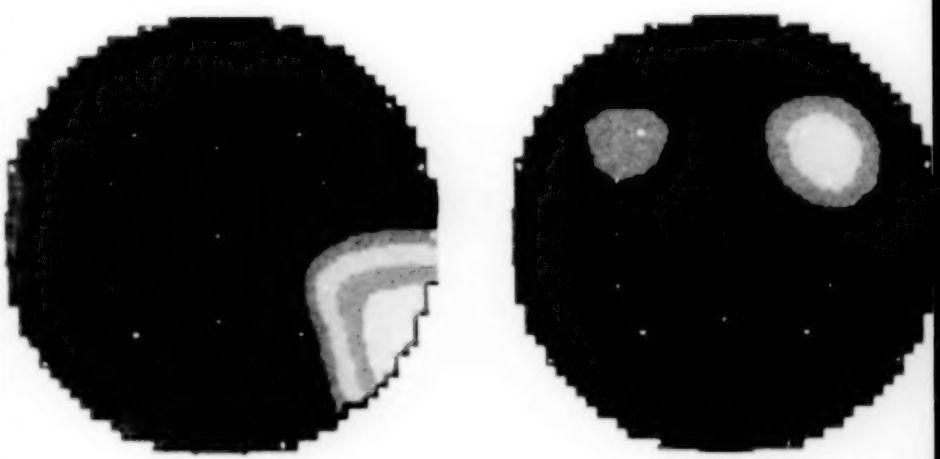

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BRAIN RESEARCH – the 'main' journal

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BRAIN RESEARCH provides a medium for the prompt publication of articles in the fields of neuroanatomy, neurochemistry, neurophysiology, neuroendocrinology, neuropharmacology, neurotoxicology, neurocommunications, behavioural sciences, molecular neurology and biocybernetics. Clinical studies that are of fundamental importance and have a direct bearing on the knowledge of the structure and function of the brain, the spinal cord, and the peripheral nerves will also be published.

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(including Developmental Brain Research, Molecular Brain Research, Brain Research Reviews, Cognitive Brain Research and Brain Research Protocols)

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Brain Research (including **Molecular Brain Research, Developmental Brain Research, Brain Research Reviews, Cognitive Brain Research and Brain Research Protocols**) is published according to the following scheme:

BRAIN RESEARCH (2001) (63 volumes in 135 issues)						
Brain Research Vols. 887–922 (36 Volumes in 72 issues)* weekly	**Molecular Brain Research** Vols. 86–97 (12 volumes in 24 issues) monthly	**Developmental Brain Research** Vols. 126–132 (7 volumes in 14 issues) monthly	**Brain Research Reviews** Vols. 35–37 (3 volumes in 9 issues)	**Cognitive Brain Research** Vols. 10–11 (2 volumes in 6 issues)*	**Brain Research Protocols** Vols. 7 and 8 (2 volumes in 6 issues)	**Gene Expression Patterns** Vol. 1 (1 volume in 4 issues)

* Please note that Volume 887 (Issues no. 1 and 2) of **Brain Research,** and Volume 10 (Issues no. 1 and 2) of **Cognitive Brain Research** were published ahead of schedule in 2000, in order to reduce publication time. The volumes remain part of the 2001 subscription year.

We apologise for the inconvenience these changes in schedule may cause.

Subscribers to the journal or its sections should note that the section titles are now prefixed with the main journal title in order to facilitate cataloguing. All sections should therefore be indexed under **Brain Research**.

The correct **citation** to all articles is readily found in the reference line at the top of the first page of all articles. Articles published in **Brain Research** are cited according to the section in which they appear.

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INTRODUCTION

The 2000 Cumulative Author and Subject Index comprises 12 separate indexes: the Author and Subject Indexes of **Brain Research, Developmental Brain Research, Molecular Brain Research, Brain Research Reviews, Cognitive Brain Research, Brain Research Protocols.** Each section had its own volume numbering according to the schedule below. The numbering has been used in the present indexes.

BRAIN RESEARCH (2000) Volumes					
Brain Research Vols. 852–887	**Developmental Brain Research Vols. 119–125**	**Molecular Brain Research Vols. 75–85**	**Brain Research Reviews Vols. 31–34**	**Cognitive Brain Research Vol. 9**	**Brain Research Protocols Vols. 5–6**

Please note that the above schedule differs slightly from the *original* 2000 publication schedule:

Volume 851 of **Brain Research**, Volume 74 of **Molecular Brain Research**, and Volume 8 of **Cognitive Brain Research**, belong to the 2000 subscription year but were published in 1999 and have been indexed in the 1999 index.

Volume 887 of **Brain Research** belongs to the 2001 subscription year but was published in 2000 and has been indexed in the present index.

The Editor and Publisher of Brain Research welcome any comments on the usefulness of this index as well as suggestions of improvements.

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Ischemic tolerance induction; Global ischemia; DNA binding activity; Gerbil (Kapinya, K. (872) 282)

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Activity-dependent neuroprotective protein
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Activity-dependent neurotrophic factor
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Activity-dependent neurotrophic factor (ADNF)
Vasoactive intestinal peptide (VIP); Activity-dependent neuroprotective protein; Parkinson's disease (PD); Buthionine sulfoximine (BSO); Dopamine (DA) (Offen, D. (854) 257)

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Acute phase response
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Adenosine deaminase
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α-adrenergic antagonists; Water intake; Sodium intake; Subfornical organ; Lateral hypothalamus (Camargo, L.A.d.A. (881) 176)

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Amino acid transport blocker
DL-*threo*-β-Benzyloxyaspartate; Glutamate; Aspartate; Taurine; Reversed transport; Cerebral cortex; Excitotoxicity (Phillis, J.W. (868) 105)

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A_{2a}-adenosine receptor
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α_{2a}-Adrenergic mice
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α_2 agonist
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Sodium; Potassium; Stroke; Flame photometry; Microanalysis; Water content; Punch sampling; Electrolyte; Wet–dry (Hu, W. (868) 370)

N-Methyl-D-aspartate receptor; Glycine-binding site; SM-18400; Spontaneously hypertensive rat; Bilateral carotid artery occlusion (Ohtani, K.-i. (871) 311)

Hexachlorophene; Magnetic resonance; Apparent diffusion coefficient (Kinoshita, Y. (873) 127)

Blood–brain barrier; Knock out mouse; Microglia; Plasminogen activator; Urokinase (Kataoka, K. (887) 187)

Brain injury
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Brain ischemia
Endothelium; Nitric oxide; Peroxynitrite; Transgenic mice (Hirabayashi, H. (852) 319)

Calcium entry blocker; Hippocampus; Rats; Spatial learning; Amnesia (Tamura, R. (853) 81)

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Brain mapping
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Brain microvascular endothelial cell
TNFα; Protein kinase C; Intercelluar adhesion molecule 1; Fluid phase endocytosis (Defazio, G. (863) 245)

Tight junction; Apoptosis; Cyanide; Ischemia; Electron microscopy (Zhang, J. (877) 134)

TNFα; Tyrosin kinase; Interferon β-1a; Intercellular adhesion molecule 1 (Defazio, G. (881) 227)

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Brain pathology
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Ischemia; Neuroprotection; Nimodipine; Dimethyl sulfoxide (Greiner, C. (887) 316)

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Sarpogrelate; Baroreceptor reflex; Hypertension (Tsukamoto, K. (863) 1)

Immunocytochemistry; Neurotrophic; Sleep; Reticular formation (Yamuy, J. (866) 1)

Asphyxia; Hypoxia; Fetus; Umbilical cord; Glutamate (Sakata, Y. (871) 271)

Satiety; Glutamate; Nucleus of the Solitary Tract; MK-801 (Treece, B.R. (872) 37)

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Brainstem circuitry
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Ischemic tolerance; Cerebral ischemia; Cerebral infarction; Temporary focal ischemia; Rat (Yanamoto, H. (859) 240)

Huntington Disease; Neurodegeneration; Trophic factors (Ferrer, I. (866) 257)

Glial fibrillary acidic protein; Heat shock protein 27; Heat shock protein 70; Cortical spreading depression (Yanamoto, H. (877) 331)

Glutamate; Retina; Flat mount; Retinal ganglion cell; Cell death; *N*-Methyl-D-aspartate (Kido, N. (884) 59)

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Aging; Cholinergic neuron; Paradoxical sleep; Sleep-waking cycle (Apartis, E. (876) 37)

Bursting cell
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Buthionine sulfoximine (BSO)
Vasoactive intestinal peptide (VIP); Activity-dependent neurotrophic factor (ADNF); Activity-dependent neuroprotective protein; Parkinson's disease (PD); Dopamine (DA) (Offen, D. (854) 257)

BW
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BXSB
Autoimmunity; Shuttlebox; Passive learning; Lupus; Inbred mice; DBA; BW; NZB; Footshock (Baloght, S.A. (887) 484

C

[^{11}C]β-CFT
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[^{11}C]MDL100,907
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^{14}C-lactate
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C57BL/6
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C57BL/6 mouse
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c-fos; MAPK; CREB; Lipopolysaccharide; Cycloheximide (Kim, Y.-H. (872) 227)

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Hippocampus; Lamellar organization; CA3 axon; Schaffer collateral (Andersen, P. (886) 165)

CA1 neuron
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CA3 neuron
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CA1 pyramidal cell
Action potential; Backpropagation; Calcium; Dendrite; Schaffer collateral (Isomura, Y. (883) 119)

CA3 axon
Hippocampus; Lamellar organization; CA1; Schaffer collateral (Andersen, P. (886) 165)

$^{45}Ca^{2+}$ influx
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CAD-R1 cells
CNS cell line; Voltage-dependent sodium currents; Sodium channel proteins; Insulin; Targeting (Castañeda-Castellanos, D.R. (866) 281)

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Calcium homeostasis; CCCP; Clonazepam; Cyclosporin A (Murchison, D. (854) 139)

Cerebral glucose utilization; Locomotion; Sleep; Dependence (Nehlig, A. (858) 71)

Calbindin
Soy; Phytoestrogens; Hypothalamus; Calretinin; Aromatase; 5α-Reductase; Rat; Western (Lephart, E.D. (859) 123)

Nitric oxide; Somatostatin; Neuropeptide Y; GABA; Primate (Smiley, J.F. (863) 205)

Ventral tegmental area; Substantia nigra; Striatum; Neuroprotection; Dopamine; Parkinson's disease (Tan, Y. (869) 56)

Acetylcholine; Calretinin; Parvalbumin; NMDA receptor (Araki, C.M. (869) 220)

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Calbindin D28k
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Calcitonin gene-related peptide
CGRP8-37; Hindpaw withdrawal latency; Periaqueductal grey (PAG); Sciatic nerve ligation (Xu, S.-L. (859) 358)

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Dorsal root ganglion; Immunohistochemistry; Mesencephalic trigeminal tract nucleus; Osteopontin; Parvalbumin; Trigeminal ganglion (Ichikawa, H. (863) 276)

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Anti-nociception; Calcitonin gene-related peptide-like immunoreactivity; Opioid peptide; Nucleus raphe magnus; Radioimmunoassay (Huang, Y.-H. (873) 54)

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Calcitonin gene-related peptide-like immunoreactivity
Anti-nociception; Calcitonin gene-related peptide; Opioid peptide; Nucleus raphe magnus; Radioimmunoassay (Huang, Y.-H. (873) 54)

Calcitonin-like immunoreactivity
Subcommissural organ–Reissner's fiber complex; γ-Aminobutyric acid; GABA; Immunocytochemistry; Teleost (Saha, S.G. (852) 335)

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Arginine^{8}-vasopressin; C-terminalfragment; Metabolite; Inositol(1,4,5)-trisphosphate (Nakayama, Y. (858) 416)

Action potential; Backpropagation; CA1 pyramidal cell; Dendrite; Schaffer collateral (Isomura, Y. (883) 119)

Excitatory amino acid receptor; AMPA receptor; Neurotoxicity; Ischemia; Seizure (Tanaka, H. (886) 190)

Calcium binding
Corpora amylacea; Polyglucosan bodies; S100; Neurodegenerative disease; Aging; Human brain; Inflammation (Hoyaux, D. (867) 280)

Calcium binding protein
Calretinin; Parkinson's disease; Tyrosine hydroxylase (Kim, B.G. (855) 162)

Colocalization; Excitotoxicity; GABA; GluR1; Metabotropic glutamate receptor; Somatostatin; Tyramide signal amplification (Stinehelfer, S. (861) 37

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Toxin; Brain; Glial cell; Choroid plexus; Neuron; Mapacalcine; Binding; Autoradiography; Receptor; Mapping; Synaptic membrane (Mourre, C. (858) 136)

Cilnidipine; Nociception (Murakami, M. (868) 123)

Clonidine; α_2-Adrenoceptor agonist; Betaxolol; Neuroprotection; Sodium channel; Reactive oxygen species; Lipid peroxidation; Basic fibroblast growth factor (Chao, H.M. (877) 47)

FGF-2; Hippocampus; Neuronal differentiation; Development; Intracellular signaling (Katsuki, H. (885) 240)

Calcium channel antagonist
Ethanol tolerance; Dihydropyridine; Learning; Environment (Smith, J.W. (863) 9)

Calcium channel current
Morphine; Methadone; Neuroblastoma cell (Yang, J.C. (870) 199)

Calcium channels
NMDA; Afterhyperpolarization; Phase lag; Motor control; Intersegmental coordination (Tegnér, J. (864) 81)

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Calcium entry blocker
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Caffeine; CCCP; Clonazepam; Cyclosporin A (Murchison, D. (854) 139)

Calcium influx
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Calcium-activated potassium channel
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Iba1; Microglia; Mouse; Olfactory bulb; Synaptic plasticity (Okere, C.O. (877) 85)

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Caldesmon
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Calories
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Calpain I activation
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Calpain inhibitor I
Reactive astrocytes; Ca^{+2} channel blockers; Calpain I activation; Intracellular Ca^{+2} chelator; Ca^{+2} ionophore; α-fodrin degradation; GFAP proteolysis (Lee, Y.B. (864) 220)

Calpain/calpastatin
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Calretinin
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Parkinson's disease; Calcium binding protein; Tyrosine hydroxylase (Kim, B.G. (855) 162)

Nucleus accumbens; Carbocyanine double-fluorescence labelling; Cholinergic interneuron; Rhesus monkey (Brauer, K. (858) 151)

Soy; Phytoestrogens; Hypothalamus; Calbindin; Aromatase; 5α-Reductase; Rat; Western (Lephart, E.D. (859) 123)

Substantia nigra pars compacta; 6-Hydroxydopamine; Tyrosine hydroxylase; Striatum (Tsuboi, K. (866) 55)

Acetylcholine; Calbindin; Parvalbumin; NMDA receptor (Araki, C.M. (869) 220)

Calbindin; nNOS; eNOS; ChAT; GABA; Confocal microscopy (Cuenca, N. (878) 228)

CaMKII
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Choroid plexus epithelium; Blood–cerebrospinal-fluid barrier; Permeability; Transepithelial electrical resistance; Impedance analysis (Wegener, J. (853) 115)

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β-Adrenergic receptors; Adenylate cyclase; Moloney murine leukemia virus; Astrocyte; HIV (Raofi, S. (862) 230)

Rat pineal; Okadaic acid; cAMP response element binding protein (CREB); Arylalkylamine *N*-acetyltransferase; Inducible cAMP early repressor (ICER); Fos-related antigen-2 (Fra-2); JunB (Spessert, R. (864) 270)

cGMP; Hair cell; Vestibular; Equilibrium receptor; Invertebrate (Tu, Y. (865) 211)

Somatostatin; Depolarization; Potassium; PKA (Tolón, R. (868) 338)

Nitric oxide; Hair cell; Vestibular; Equilibrium receptor organ; Invertebrate (Tu, Y. (880) 65)

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cAMP response element binding protein (CREB)
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CB1 receptor; Circling; Basal ganglia; Superior colliculus; Dopamine (Sañudo-Peña, M.C. (853) 207)

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Cannabinoid CB_1 receptor
Δ^9-Tetrahydrocannabinol; Brain development; Tyrosine hydroxylase; Tyrosine hydroxylase-containing neuron; Fetal mesencephalic neuron (Hernández, M. (857) 56)

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c-*fos*; Subnucleus oralis; Nociceptor; Myelinated primary; Unmyelinated primary (He, Y.-F. (860) 203)

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CaMKII; Theta-like rhythm; Rat hippocampal slice (Alberi, S. (872) 11

Glutamate; EPSP; Neocortex; Mouse (Hsieh, C.Y. (880) 51)

Carbamazepine
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Ca^{+2} ionophore
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Ca^{2+} current
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Centre of pressure
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Proenkephalin mRNA; Ultimobranchial gland; In situ hybridization; RT–PCR analysis; Northern blot analysis (Kameda, Y. (852) 453)

Somatostatin; Thyrotropin-releasing hormone; Brain distribution; Peripheral tissue (Geris, K.L. (873) 306)

Neurofilament proteins; Diisopropyl phosphorofluoridate; Spinal cord; Neurotoxicity; Organophosphorus ester-induced delayed neuropathy (Gupta, R.P. (878) 32)

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Chloride cotransporter
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Chloride flux
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***p*-Chloroamphetamine**
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Chlorobutanol
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7-Chlorokynurenic acid
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Cholecystokinin
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Cholera toxin
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Pseudorabies virus; Fluorogold; Acetylcholine transferase; Spinal interneuron; Bladder afferent (Vera, P.L. (883) 107)

Cholera toxin B subunit
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Retinoic acid; Acetylcholine; Choline acetyltransferase; Cholinergic; Neuroblastoma; Differentiation (Malik, M.A. (874) 178)

Alpha7; Nicotinic receptors; Hippocampus; Patch clamp; Kinetics (Mike, A. (882) 155

Choline acetyltransferase
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Adolescence; Nicotine; Choline transporter; Hemicholinium-3 binding (Trauth, J.A. (873) 18)

Retinoic acid; Acetylcholine; Choline; Cholinergic; Neuroblastoma; Differentiation (Malik, M.A. (874) 178)

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Choline transporter
Adolescence; Nicotine; Choline acetyltransferase; Hemicholinium-3 binding (Trauth, J.A. (873) 18)

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Brainstem; Choline acetyltransferase; Motor cortex; Phosphorylated neurofilament; Spinal cord (Tsang, Y.M. (861) 45)

Retinoic acid; Acetylcholine; Choline; Choline acetyltransferase; Neuroblastoma; Differentiation (Malik, M.A. (874) 178)

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Chondroitin sulphate proteoglycan
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Blood–CSF barrier; Blood–brain barrier; Zinc; Histidine (Takeda, A. (863) 241)

Choroid plexus epithelium
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Chronic constriction injury
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Suprachiasmatic nuclei; Cyclic AMP; Protein kinase A; Melatonin (Ferreyra, G.A. (858) 33)

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Dorsal raphe nucleus; SCN; Serotonin; $5\text{-}HT_7$ receptor; Hamster (Glass, J.D. (859) 224)

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Circling
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$^{36}Cl^-$ influx
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Cleaved Tau protein
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Clock gene
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Clonazepam
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Clonidine
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CNTFRα
Hippocampus; Global ischemia; CNTF; Glial fibrillary acidic protein; Astrocyte (Park, C.K. (861) 345)

Cocaine
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GBR12909; L-[β-^{11}C]DOPA; [^{11}C]β-CFT; Positron emission tomography; Microdialysis; Monkey brain (Tsukada, H. (860) 141)

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18-Methoxycoronaridine (18-MC); Sensitization; Locomotor activity; Dopamine; Drug addiction (Szumlinski, K.K. (871) 245)

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Cocaine analog
Dopamine uptake; Human dopamine transporter; Cocaine; Anti-idiotypic antibody; N1E-115 (Ho, M. (872) 231)

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Cochlea removal
Calcium-binding protein; Nucleus magnocellularis; In situ hybridization; N06 antibody; Intracellular calcium concentration (Stack, K.E. (873) 135)

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Colocalization
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cLHRH-I; AVT; Neuropeptide; Hypothalamus; Immunocytochemistry (D'Hondt, E. (856) 55)

Spinal cord; Nitric oxide; cGMP; GABA; Acetylcholine; Rat (Vles, J.S.H. (857) 219)

Calcium binding protein; Excitotoxicity; GABA; GluR1; Metabotropic glutamate receptor; Somatostatin; Tyramide signal amplification (Stinehelfer, S. (861) 37)

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Combinatorial chemical synthesis
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Complex I
N-Acetylcysteine; Aging; Thiol; Mitochondria; Parkinson's disease (Martínez Banaclocha, M. (859) 173)

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Acoustic startle response; Anxiety; Conditioned fear; GABA; Glutamate; Periaqueductal gray (Fendt, M. (880) 1)

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Ethanol; U-99194A; Mice; Swiss–Webster (Boyce, J.M. (880) 202)

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Neurofilament; Transgenic mouse; Myelinated axon; Intra-axonal recording (Križ, J. (885) 32)

Cone
Olfactory receptor cell; Rod; Odorant; Patch clamp; Newt (Kawai, F. (876) 180)

Confocal microscopy
Cerebral Ischemia; Three-dimensional image analysis; Stroke; Rat (Morris, D.C. (876) 31)

Calretinin; Calbindin; nNOS; eNOS; ChAT; GABA (Cuenca, N. (878) 228)

Conjunctiva
Cornea; Mitosis; Colchicine; Epithelium; Wound healing; Limbus (Zagon, I.S. (882) 169)

Connexin
Intercellular communication; Astrocyte; Pinealocyte; Dye coupling; Circadian rhythm (Berthoud, V.M. (861) 257)

Gap junction; Neuron; Parvalbumin; Brain development (Belluardo, N. (865) 121

ω-Conotoxin
N-type calcium channel; Striatum; Rotation; Motor activity; D2-dopamine receptors (Haubrich, C. (855) 225)

Conscious rats
Dopamine; Single-unit recording; Lordosis reflex; Proceptivity; Sexual motivation; Preoptic area; Solicitation (Kato, A. (862) 90)

Consciousness
Anesthesia; Behavior; Dementia, Electrocorticogram; Gamma wave; Neocortex (Vanderwolf, C.H. (855) 217)

Lateral geniculate nucleus; Thalamus; Corticothalamic; Attention; Cognition (Montero, V.M. (864) 95)

Consolidation
Retention; Long-term memory; Spatial memory and hippocampus; Amnesia (Ramos, J.M.J. (879) 200)

Context
Taste aversion; Learning; Nucleus of the solitary tract (NTS); Pontine parabrachial nucleus (PBN); LiCl; c-Fos (Swank, M.W. (862) 138)

Contextual conditioning
GAP-43; Inbred strain; C57BL/6; DBA/2; Complex learning; Memory; Hippocampus (Young, E.A. (860) 95)

Contextual cues
Conditioning; Behavioral sensitization; Hyperlocomotion; In vivo microdialysis (Duvauchelle, C.L. (862) 49)

Controlled cortical impact
Neurotrophin; MWM (Yan, H.Q. (887) 134)

Controlled cortical impact injury
Amino acid; Cell swelling; Excitotoxicity; High-performance liquid chromatography; Volume-regulation (Stover, J.F. (875) 51)

Contusive spinal cord injury
Critical time window; Gacyclidine; *N*-Methyl-D-aspartate; Secondary injury; Neurochemical cascade (Gaviria, M. (874) 200)

Convection-enhanced delivery
Blood-brain barrier; Brain; Cytosine arabinoside; Drug delivery; Progressive multifocal leukocencephalopathy (Groothuis, D.R. (856) 281)

Converting enzyme inhibitor
Angiotensin receptor; Bradykinin; Cerebral vessel; Dogs; Nitric oxide (Feterik, K. (873) 75)

Convulsion
Glutathione; L-Buthionine-[*S,R*]-sulfoximine; Pentylenetetrazol; Mouse (Abe, K. (854) 235)

Opioid receptors; Opiates; Bicuculline; $GABA_A$ receptors; Synaptic transmission; Mice (Yajima, Y. (862) 120)

5-Aminolevulinic acid; Body asymmetry; γ-Aminobutyric acid; Glutamate; Striatum. (Emanuelli, T. (868) 88)

Brainstem; *N*-methyl-D-aspartate; Epilepsy; Audiogenic seizures; Rat (Ishimoto, T. (881) 152)

Copper-induced oxidation
Fluvastatin; Low-density lipoprotein (LDL); 1-Methyl-4-phenylpyridine (MPP^+); Hydroxyl radical (Obata, T. (860) 166)

Core
Nucleus accumbens; Mesolimbic; Shell; Morphine; Opiate; Opioid; Striatum; Dopamine; Naloxone; Agonist; Antagonist; Hyperphagia; Palatability; Appetite; Food intake; Hedonic; Reward; Pleasure; Motivation; Addiction; Genes (fos); Transcription factors (Peciña, S. (863) 71)

Corn oil
Conditioned place preference; Oral cavity; Dopamine D1; Reward (Imaizumi, M. (870) 150)

Cornea
Mitosis; Colchicine; Epithelium; Wound healing; Limbus; Conjunctiva (Zagon, I.S. (882) 169)

Corpora amylacea
Polyglucosan bodies; S100; Neurodegenerative disease; Aging; Human brain; Calcium binding; Inflammation (Hoyaux, D. (867) 280)

Corpus callosum
Sexual dimorphism; MRI; Amygdala; Brain volume; Rhesus monkey (Franklin, M.S. (852) 263)

Feminization; Ovarian hormones; Organizational effects; Sexual differentiation (Bimonte, H.A. (872) 254)

Corpus striatum
Quinolinic acid; Superoxide dismutase; Glutathione; Glutatione peroxidase (Rodríguez-Martínez, E. (858) 436)

Correlation
Lateral tegmental field neuron; Sympathetic nerve discharge; 8- to 13-Hz slow wave (Dempesy, C.W. (852) 213)

Cortex
Glucocorticoid receptor; Corticosterone; Western blot; Hippocampus; Hypothalamus (Spencer, R.L. (868) 275)

Language impairment; Dyslexia; Auditory discrimination; Operant conditioning (Clark, M.G. (871) 94)

Estradiol; Neuroprotection; Ischemia; In vitro;

Explants; Cell death (Wilson, M.E. (873) 235)

Neurodegeneration; 6-Deoxy-6-β-[^{18}F]fluoronaltrexone; Positron emission tomography; Visual system (Cohen, R.M. (879) 1)

Steroid receptor; Hypothalamus; Amygdala; Reptile (Moga, M.M. (879) 174)

Cortex ablation
Functional recovery; Norepinephrine; Sensorimotor cortex; Hemiplegia; L-DOPS; Beam-walking performance (Kikuchi, K. (860) 130)

Cortical blood flow
Brain pH_i; Nitric oxide; Acidosis; Infarction (Anderson, R.E. (856) 220)

Cortical cholinergic innervation
Nucleus basalis lesion; Alzheimer's disease models; Gliosis; Astrocytes; GFAP; Ageing (Monzón-Mayor, M. (865) 245)

Cortical excitability
TMS; MEP; Autonomic system; Skin test (Filippi, M.M. (881) 159)

Cortical layer
Electron microscopy; Synaptic terminal; Aging; Synapse loss (Brunso-Bechtold, J.K. (872) 125)

Cortical masticatory area
Motor cortex; Amygdala; Rhythmic jaw movement; Motor control; Monkey (Hatanaka, N. (854) 220)

Cortical module
Visual cortex; Parallel processing; Cytochrome oxidase (Stewart, T.H. (881) 47)

Cortical neuron
CRF; Neuronal toxicity; Ischaemia; NMDA; AMPA (Craighead, M.W. (881) 139)

Extracellular signal-regulated kinase; Excitotoxicity; Glutamate receptor; Protein kinase; Protein phosphatase (Jiang, Q. (887) 285)

Cortical neuron culture
Low-affinity kainate receptors; Excitotoxicity; LY339434; NMDA receptors (Moldrich, R.X. (862) 270)

Cortical plasticity
Sensory deprivation; Naris closure; Olfactory cortex; Synaptic competition; Golgi stain; Timm stain; Unilateral olfactory deprivation (Wilson, D.A. (853) 317)

Cortical reorganization
Brain injury; Neuronal plasticity; Somatosensory cortex (Zarei, M. (870) 142

Cortical spreading depression
Migraine; Sumatripan; Free radical (Read, S.J. (870) 44)

Brain-derived neurotrophic factor; Glial fibrillary acidic protein; Heat shock protein 27; Heat shock protein 70 (Yanamoto, H. (877) 331)

Mitochondrial NADH; Extracellular K^+; Brain oxygenation; Hypoxia; Ischemia (Sonn, J. (882) 212)

Corticofugal modulation
Bat; Inferior colliculus; Intensity-coding; Dynamic range (Zhou, X. (881) 62)

Corticoid
Proopiomelanocortin; Serotonin; Arcuate nucleus; Nucleus raphe dorsalis (Bonnet, C. (853) 323)

Corticospinal
Recovery of function; Motor cortex (Kolb, B. (882) 62)

Corticosteroid
PCP; NMDA; Apoptosis; Caudate; Amphetamine (Griffiths, M.R. (855) 1)

Corticosterone
Adrenocorticotropic hormone; Corticotropin-releasing factor; Diabetes mellitus; Otsuka Long–Evans Tokushima Fatty rat (Takao, T. (852) 110)

Dentate gyrus; Rat (Stienstra, C.M. (854) 230)

Prolactin; Morphine; Lewis; Fischer 344; Stress (Baumann, M.H. (858) 320)

Interleukin-1; Lipopolysaccharide; CRH; ACTH; HPA axis (Ma, X.C. (861) 135)

Amygdala; Corticotropin-releasing factor; Fear; Anxiety; Elevated plus-maze (Shepard, J.D. (861) 288)

CTA; Conditioned taste aversion; Morphine; Saccharin; Anticipatory contrast; Individual differences (Gomez, F. (863) 52)

Dopamine; Medial prefrontal cortex; Conditioned fear; Stress (Morrow, B.A. (864) 146)

Glucocorticosteroids; Dexamethasone; Schwann cells; Myelin; P_0 and PMP22 gene promoters (Désarnaud, F. (865) 12)

Lipopolysaccharide; Norepinephrine; Leptin; Paraventricular nucleus (Francis, J. (867) 180)

Glucocorticoid receptor; Western blot; Hippocampus; Cortex; Hypothalamus (Spencer, R.L. (868) 275

Self-stimulation; Rat; Stress; Behavior; Glucocorticoid (Barr, A.M. (875) 196)

Long-term potentiation; Paired-pulse facilitation; Synaptic plasticity; Synaptic transmission; Reverse-transcription-polymerase chain reaction; Neurotrophin; Nerve growth factor (NGF); Brain-derived neurotrophic factor (BDNF); Neurotrophic factor-3 (NT-3) (Zhou, J. (885) 182)

Corticosterone feedback
Hypothalamic–pituitary–adrenal axis; Neuropeptide; CRH mRNA; Quantitative in situ hybridization (Cournil, I. (877) 412)

Corticothalamic
Lateral geniculate nucleus; Thalamus; Attention; Cognition; Consciousness (Montero, V.M. (864) 95)

Corticotropin releasing hormone
Neuropeptide Y; Paraventricular nucleus; Arcuate nucleus; Median eminence; NPY Y1 receptor (Li, C. (854) 122)

Leptin; Urocortin; Sympathetic nerve; Lymphocyte (Okamoto, S. (855) 192)

Fos-immunoreactivity; CRF antagonist; Sacral parasympathetic nucleus (Million, M. (877) 345)

Corticotropin releasing hormone antagonist; α-helical CRH_{9-41}; Antalarmin; Blood pressure; Rat (Briscoe, R.J. (881) 204)

Corticotropin releasing hormone antagonist
Corticotropin releasing hormone; α-helical CRH_{9-41}; Antalarmin; Blood pressure; Rat (Briscoe, R.J. (881) 204)

Corticotropin-releasing factor
Adrenocorticotropic hormone; Corticosterone; Diabetes mellitus; Otsuka Long–Evans Tokushima Fatty rat (Takao, T. (852) 110)

Amygdala; Corticosterone; Fear; Anxiety; Elevated plus-maze (Shepard, J.D. (861) 288)

Corticotropin-releasing factor binding-protein; Aging; Stress; Amygdala (Pisarska, M. (877) 184)

Corticotropin-releasing factor binding-protein
Corticotropin-releasing factor; Aging; Stress; Amygdala (Pisarska, M. (877) 184)

CPP32
Ischemia; Neuronal cell death; Apoptosis; Bcl-2; Phosphorylation (Yokote, H. (857) 78)

Crab
Long-term memory; Transcription factor; Rel/NFκ-B/Dorsal; EMSA (Freudenthal, R. (855) 274

Cranial nerve nucleus
Polyclonal antibody; Cerebellar cortex; Auditory system; Multiple system atrophy (Matsuo, A. (859) 57)

Cranin
Dystroglycan; Laminin; Synaptic protein; Synaptosome; Subcellular fractionation (Smalheiser, N.R. (887) 469)

Crayfish
Serotonin; Neurotransmission; Neuromuscular junction; Synapse (Southard, R.C. (871) 16)

Cre recombinase
High-affinity kainate receptor subunit; YAC transgenic; lacZ reporter mice (Kask, K. (876) 55)

Creatine
Excitotoxicity; Free radical; Mitochondria; Malonate; *N*-methyl-D-aspartate; Nicotine (Malcon, C. (860) 195)

Lithium; Sodium valproate; *Myo*-inositol; Inositol monophosphates; *N*-acetylaspartate (O'Donnell, T. (880) 84)

CREB
Type 2 iodothyronine deiodinase; DARPP-32; Tanycyte (Fekete, C. (862) 154)

c-fos; MAPK; Lipopolysaccharide; Cycloheximide; C6 rat glioma cells (Kim, Y.-H. (872) 227)

Cerebral ischemia; Cyclic AMP response element binding protein; Phosphorylation; Ca^{2+} channel; Na^+ channel (Tanaka, K. (873) 83)

CRF
GAD; Interneuron; Drug addiction; Extended amygdala (Criado, J.R. (861) 173)

Reward; Intracranial self-stimulation; Urocortin; D-Phe CRF_{12-41}; Rat (Macey, D.J. (866) 82)

Anxiety; Stress; Urocortin; Wistar rat (Sajdyk, T.J. (877) 226)

Neuronal toxicity; Cortical neurons; Ischaemia; NMDA; AMPA (Craighead, M.W. (881) 139)

CRF antagonist
Fos-immunoreactivity; Corticotropin-releasing hormone (CRF); Sacral parasympathetic nucleus (Million, M. (877) 345)

CRH
Interleukin-1; Lipopolysaccharide; ACTH; Corticosterone; HPA axis (Ma, X.C. (861) 135)

Dorsal vagal complex; Caudal brainstem; Feeding; Body weight; Energy homeostasis (Grill, H.J. (867) 19

CRH mRNA
Hypothalamic–pituitary–adrenal axis; Corticosterone feedback; Neuropeptide; Quantitative in situ hybridization (Cournil, I. (877) 412)

CRH-41
ACTH; Adrenalectomy; Neural stimuli; Metabolic stimuli (Weidenfeld, J. (877) 73)

Critical period
NMDA receptor; NR2A; NR2B; NR1; Plasticity (Cao, Z. (859) 26)

Critical time window
Gacyclidine; *N*-Methyl-D-aspartate; Contusive spinal cord injury; Secondary injury; Neurochemical cascade (Gaviria, M. (874) 200)

Cromakalim
Arcuate neurons; Norepinephrine; Phentolamine; Prazosin; Yohimbine; Propranolol; Naloxone; Morphine; Glibenclamide; Brain slice; Rat (Kang, Y.-M. (869) 146)

Crotononitrile
Allylnitrile; Fos expression; Vestibular nuclei (Tanii, H. (868) 141)

Crucian carp
Carbon dioxide; Nitric oxide; Cerebral blood flow; N^G-Nitro-L-arginine; Rainbow trout (Söderström, V. (857) 207)

CTA
Conditioned taste aversion; Morphine; Corticosterone; Saccharin; Anticipatory contrast; Individual differences (Gomez, F. (863) 52)

Culture
Agmatine; Nitric oxide; Inducible nitric oxide synthase; Microglia; Neurotoxicity (Abe, K. (872) 141)

Cultured cerebellar neurons
Terfenadine; excitatory aminoacid receptors; histamine; reactive oxygen species; intracellular calcium (Díaz-Trelles, R. (880) 17)

Cultured cortical neuron
ERK; Glutamate; Excitotoxicity; Apoptotic-like death; Rat (Jiang, Q. (857) 71)

Cultured neurons
IPSC; Asynchronous release; GABA; Hippocampus (Jensen, K. (880) 198)

Cultured spinal neurons
Melatonin; Glycine receptors; Whole-cell recordings; Noncompetitive inhibition (Wu, F.-S. (881) 208)

Cushing's syndrome
Magnetic resonance spectroscopy; Hypercortisolism; Cerebral metabolites; Choline (Khiat, A. (862) 301

Cutaneous and mucosal afferents
Trigemino-hypoglossal–facial reflexes; Hypoglossal–facial anastomosis; Synaptic plasticity; Man (Tankéré, F. (864) 87)

Cutaneous mechanoreceptors
Postural balance; Stepping; Human; Foot (Perry, S.D. (877) 401)

Cutaneous sympathetic neuron
Muscle sympathetic neuron; Ca^{2+} current; Ca^{2+} channel blocker; Fast Blue labelling; Rat (Kukwa, W. (873) 173)

Cu,Zn-superoxide dismutase
Kainic acid; Neurodegeneration; Hippocampus; Superoxide; Free radical; Astrocyte; Microglia (Kim, H.-C. (853) 215)

Cyanide
Brain microvascular endothelial cell; Tight junction; Apoptosis; Ischemia; Electron microscopy (Zhang, J. (877) 134)

Cyclic AMP
Suprachiasmatic nuclei; Protein kinase A; Circadian rhythm; Melatonin (Ferreyra, G.A. (858) 33)

Hypothalamus; Preoptic area; Protein tyrosine kinase; Estradiol; Adrenergic receptor (Quesada, A. (861) 117)

Suckling stimulus; Inner zone of adenohypophysis; Prolactin (Horváth, K.M. (873) 140)

Cyclic AMP response element binding protein
Cerebral ischemia; CREB; Phosphorylation; Ca^{2+} channel; Na^+ channel (Tanaka, K. (873) 83)

Cyclic GMP
Nitric oxide; Calcitonin gene-related peptide; Dorsal horn; Peptide release (Garry, M.G. (861) 208)

Rat basilar artery; Neuronal nitric oxide synthase; Endothelium; Acetylcholine; Bradykinin (Benyó, Z. (877) 79)

Cyclic nucleotide
Cerebral circulation; Newborn; Hypoxia; K^+ channel (Ben-Haim, G. (853) 330)

Newborn; Cerebral circulation; Opioid; K^+ channel (Ben-Haim, G. (884) 51)

Cyclin D1
Rat; Neonate; Malnutrition; Cerebellum; Cip; Ink4 inhibitor; Neuron; Glia (Shambaugh III, G.E. (855) 11)

Cyclin-dependent kinase 5
Lewy body; Dementia with Lewy bodies; Diffuse Lewy body disease; Immunohistochemistry (Takahashi, M. (862) 253

Cycloheximide
Macular degeneration; Excitotoxicity; TPEN; DEVD; zVAD (Hyun, H.J. (869) 39)

c-fos; MAPK; CREB; Lipopolysaccharide; C6 rat glioma cells (Kim, Y.-H. (872) 227)

Cyclooxygenase-2
Oligodendroglioma; Cylcooxygenase-1; Immunocytochemistry (Deininger, M.H. (885) 111)

Cyclosporin A
Caffeine; Calcium homeostasis; CCCP; Clonazepam (Murchison, D. (854) 139)

Cyclothiazide
Cholinergic neurotransmission; CNQX; Kainate injection; [^{3}H]Pirenzepine binding (Jin, S. (882) 128)

Cyclooxygenase
Kainic acid; Lipoxygenase; Lipid peroxidation; Protein oxidation; Glutathione status; Neuronal loss; Hippocampus (Kim, H.-C. (874) 15)

Cyclooxygenase-1
Oligodendroglioma; Cyclooxygenase-2; Immunocytochemistry (Deininger, M.H. (885) 111)

Cyprinidae
Development; Olfactory deprivation; *Danio rerio*; *Danio aequipinnatus*; *Rasbora trilineata*; *Barbus titteya* (Poling, K.R. (856) 135)

Cytochrome *c*
Apoptosis; Caspase; Cerebral ischemia; Manganese superoxide dismutase; Poly(ADP–ribose) polymerase (Guégan, C. (856) 93)

Cytochrome oxidase
Honeybee; Histochemistry; Nicotinic receptor; Imidacloprid (Armengaud, C. (859) 390)

Visual cortex; Parallel processing; Cortical module (Stewart, T.H. (881) 47)

Cytochrome *P*-450
Rat brain; Human brain; Psychotropic drug; Metabolism; Microsome (Voirol, P. (855) 235)

Cytokine
S100; Astrocyte; Microglia; Nitric oxide; Site-directed mutagenesis (Petrova, T.V. (853) 74)

Neuroimmunoregulation; Lateral hypothalamic area; Amygdaloid nuclear complex (Gao, Y. (859) 364)

Fas; Apoptosis; Cerebrospinal fluid; Alzheimer's disease (Martínez, M. (869) 216)

Nitric oxide; Lipopolysaccharide; Neurons; Glia; Neurotoxicity; Primary cell culture (Jeohn, G.-H. (880) 173

Cytosine arabinoside
Blood-brain barrier; Brain; Convection-enhanced delivery; Drug delivery; Progressive multifocal leukocencephalopathy (Groothuis, D.R. (856) 281)

Cytoskeleton
Microglia; Motility; pH; Chemotaxis (Faff, L. (853) 22)

K_{ATP} channel; Hypoxia; Metabotropic glutamate receptor; G-protein (Mironov, S.L. (853) 60)

Neurofilament; Axonal transport; Phosphorylation; Axon; Development; Aging (Jung, C. (856) 12)

Organic acidemia; Phosphorylation; NMDA receptor (De Mattos-Dutra, Â. (856) 111)

Ototoxicity; Fimbrin; Actin; Tubulin; Aminoglycoside (Stacey, D.J. (871) 319)

Cytosolic Ca^{2+} concentration
Ang II; Pituitary cell; Folliculo-stellate cell (Du, J. (859) 167)

Cytotoxicity
Aluminum; Neurons; Astrocyte (Lévesque, L. (877) 191)

D

D-Amphetamine
R(+)-8-OH-DPAT; 5-HT_{1A} receptor; Dopamine synthesis; Rat (Kuroki, T. (872) 204)

D-Bifunctional protein
Peroxisomal enzyme; D-Bifunctional protein deficiency; Zellweger syndrome (Itoh, M. (858) 40)

D-Bifunctional protein deficiency
Peroxisomal enzyme; D-Bifunctional protein; Zellweger syndrome (Itoh, M. (858) 40)

D-glucose
NMDA; Seizure; 7-Chlorokynurenic acid; Ester prodrug (Battaglia, G. (860) 149)

DL-*threo*-β-Benzoylaspartate
Amino acid transport blocker; Glutamate; Aspartate; Taurine; Reversed transport; Cerebral cortex; Excitotoxicity (Phillis, J.W. (868) 105)

D-MDMA
Restraint-induced hypothermia; Restraint-induced neuroprotection; D-MDMA-induced neurotoxicity; Restraint; Stress; Hypothermia; Neurotoxicity; Neuroprotection (Johnson, E.A. (875) 107

D-MDMA-induced neurotoxicity
Restraint-induced hypothermia; Restraint-induced neuroprotection; Restraint; D-MDMA; Stress; Hypothermia; Neurotoxicity; Neuroprotection (Johnson, E.A. (875) 107)

[D-Pen^{2,5}]-enkephalin
Glutamate; Delta opioid receptor; Striatum; Naltrindole; Microdialysis (Rawls, S.M. (861) 296)

D-Phe CRF_{12-41}
Reward; Intracranial self-stimulation; CRF; Urocortin; Rat (Macey, D.J. (866) 82)

δ receptor
Mercaptoacetate; Lipoprivation; Feeding; Opioids; μ receptor; κ receptor; Antisense probes (Stein, J.A. (864) 240)

D1 dopamine receptor
Medial prefrontal cortex; Glutamate; α-Aminobutyric acid; Microdialysis (Abekawa, T. (867) 250)

D1 receptor
Knockout mice; Cocaine; Amphetamine (Xu, M. (852) 198)

DARPP-32; Development; Optic Tectum; Dopamine (Araki, C.M. (865) 264)

SKF 82958; L-DOPA; Startle; 6-OHDA (Meloni, E.G. (879) 93)

D2 receptor
Turtle; Rat; Olfactory bulb; Brain slice; Tissue culture (Berkowicz, D.A. (855) 90)

Plasticity; Dopamine; Physical activity (Anderson, B.J. (872) 262)

DA
Hypoprolactinemia; Prolactin antiserum; Haloperidol; DOPAC (Hentschel, K. (852) 28)

DA11
E-FABP; KLBP; C-FABP; Fatty acid lipid binding; Neuronal migration and differentiation (Liu, Y. (852) 16)

Danio aequipinnatus
Development; Cyprinidae; Olfactory deprivation; *Danio rerio*; *Rasbora trilineata*; *Barbus titteya* (Poling, K.R. (856) 135)

Danio rerio
Development; Cyprinidae; Olfactory deprivation; *Danio aequipinnatus*; *Rasbora trilineata*; *Barbus titteya* (Poling, K.R. (856) 135)

Dark avoidance
c-Fos expression; Learning and memory; Aging; Nucleus basalis of Meynert (Zhang, Yu.-Q. (879) 156)

Dark phase
Food intake; Light phase; Cocaine treatment; Withdrawal (Giorgetti, M. (877) 170

Dark-rearing
Microvascularization; Blood vessel; Striatal cortex; Computer assisted morphometry; Synaptic activity (Argandoña, E.G. (855) 137)

DARPP-32
Type 2 iodothyronine deiodinase; CREB; Tanycyte (Fekete, C. (862) 154)

Development; D1 receptor; Optic Tectum; Dopamine (Araki, C.M. (865) 264)

Knockout mice; Operant conditioning; Reversal learning; Dopamine transmission (Heyser, C.J. (867) 122)

Parkinson's disease; L-buthionine-[*S,R*]-sulfoximine; Reaggregate culture; Tyrosine hydroxylase; Glial fibrillary acidic protein (Nakamura, K. (873) 203)

DAT
L-DOPA; MPTP; Recovery; Experimental parkinsonism (Fornai, F. (887) 110)

db/db
Obesity; Blood–brain barrier; Influx; ob/ob (Maness, L.M. (873) 165)

DBA
Autoimmunity; Shuttlebox; Passive learning; Lupus; Inbred mice; BXSB; BW; NZB; Footshock (Baloght, S.A. (887) 484)

DBA/2
GAP-43; Inbred strain; C57BL/6; Complex learning; Contextual conditioning; Memory; Hippocampus (Young, E.A. (860) 95)

Deafferentation
Fluoro-Jade; Staining; Neurodegeneration; Entorhino-hippocampal system; AChE; Rat (Savaskan, N.E. (864) 44)

GluR1; GluR2; Calbindin-D28k; Digoxigenin; In situ hybridization (Kondo, M. (883) 238)

Death
Cathepsin; PCR subtraction; Survival; Reactive oxygen (Nishio, C. (873) 252)

Death receptor
Alzheimer's disease; TR3; Lymphocyte; Apoptosis; Antibody (Newman, S.J. (857) 131)

Decapitation ischemia
CA1; Hippocampal slices; Population spikes; MK-801; NBQX; Neuroprotection (Artemenko, D.P. (863) 66)

Decerebrate
Caudal brainstem; Taste reactivity; Food deprivation; Ingestion; Taste; Electromyography (Kaplan, J.M. (870) 102)

Decerebration
Myoclonic twitching; Active sleep; REM sleep; Rat; Infant (Kreider, J.C. (872) 149

Deep pyramidal neuron
Piriform (olfactory) cortex; Layer III nonpyramidal neuron; Rat (Protopapas, A.D. (865) 1)

Defecation
Serotonin; SSRI; Anxiety; ACTH; Oxytocin; Prolactin; Renin (Zhang, Y. (855) 58)

Defeminization
Sexual differentiation; c-Fos gene expression; Testosterone; Estradiol (Arrieta, I. (867) 100)

Defence mechanism
Alcohol dehydrogenase; Class III; Class I; Immunohistochemistry; Distribution (Mori, O. (852) 186)

DEG/ENaC
Mechanoreceptor; Mechanosensation; Meissner corpuscle; Merkel cell–neurite complex; Pacinian corpuscle (Drummond, H.A. (884) 1)

Degeneration
Transcription; Sprouting; Schwann cell; Trophism (Court, F. (867) 1)

Olfactory bulbectomy; Animal model of depression; MRI; Ventricular enlargement (Wrynn, A.S. (879) 193)

NF-κB; Ganglion cell; Retina; Axotomy (Choi, J.-S. (883) 60)

Degenerative disease, Alzheimer's — neuropharmacology
Acetylcholine receptor, Muscarinic; m2 Subtype selectivity; Regional localization of a receptor; Tricyclic compound; Tomographic brain imaging (Cohen, V.I. (861) 305)

Dehydroepiandrosterone
Allopregnanolone; Anoxia; Neurosteroid; 17β-Estradiol; Neuron (Marx, C.E. (871) 104)

Delay period
Primary motor cortex; Premotor cortex; Visually guided jaw movement; Single neuronal activity; Monkey (Yoshino, K. (852) 414)

Delayed degeneration
Basal ganglia; Amyloid precursor protein; Substantia nigra; C-terminal fragment (DeGiorgio, L.A. (874) 137)

Delayed neuronal death
Hippocampus; Dialysis electrode; Neurotoxicity (Yano, T. (883) 69)

GDNF; Adenoviral vector; Transient global ischemia (Yagi, T. (885) 273)

Delayed rectifier K^+ currents
Inward rectifier K^+ currents; Membrane potential; Müller cell; Glia (Pannicke, T. (862) 187

Delta opioid receptor
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Dihydroxyphenylacetic acid
Dihydroxyphenylacetaldehyde; Dihydroxyphenylethanol; Dopamine; Complex I; MPP+; Rotenone; Parkinson's disease (Lamensdorf, I. (868) 191)

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Dihydroxyphenylethanol
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1,3-Dimethyl-8-cyclopentylxanthine
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DNA repair
Alzheimer's disease; DNA oxidation; Base excision repair; Helicases (Lovell, M.A. (855) 116)

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Dietary selenium; Methamphetamine; Substantia nigra; Tyrosine hydroxylase; Neurotoxicity (Kim, H.-C. (862) 247)

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Intermittent cocaine; Sensitization; Nucleus accumbens; (±)-1-(4-Iodo-2; 5-dimethoxyphenyl)-2-aminopropane (DOI); Ketanserin (Yan, Q.-S. (863) 254)

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Mu-opioid receptor; c-FOS; Immunocytochemistry; Intracerebroventricular; Tail flick latency (Jiang, Y. (873) 291)

Endomorphin-1
Naloxonazine; β-Funaltrexamine; 3-Methoxynaltrexone; Endomorphin-2 (Sakurada, S. (881) 1)

Endomorphin-2
Naloxonazine; β-Funaltrexamine; 3-Methoxynaltrexone; Endomorphin-1 (Sakurada, S. (881) 1)

β-Endorphin
Androgenic–anabolic steroid; Morphine; Immediate-early gene; Striatum; Thalamus (Harlan, R.E. (853) 99)

Motoneuron; Pro-opiomelanocortin; Nerve stimulation; Exercise (Hughes, S. (887) 191)

Endosomal/lysosomal system
Methylmercury; Primary cultured rat microglia; Apoptosis; Caspase (Nishioku, T. (871) 160)

Endothelial barrier antigen
Blood–brain barrier; Endothelial cell; Immunocytochemistry; Albumin; Horseradish peroxidase (Ghabriel, M.N. (878) 127)

Endothelial cell
Lung-type prostaglandin F synthase; Dendrites; Spinal cord; Immunocytochemistry (Suzuki-Yamamoto, T. (877) 391)

Blood–brain barrier; Endothelial barrier antigen; Immunocytochemistry; Albumin; Horseradish peroxidase (Ghabriel, M.N. (878) 127)

Endothelin
Hypoxia; Laser Doppler flowmetry; Reoxygenation; Neural damage (Park, L. (883) 51)

Endothelin-1
Monitoring focal cerebral ischemia; Microdialysis; Laser Doppler flowmetry; Neurotransmitters (Bogaert, L. (887) 266

Endothelium
Brain ischemia; Nitric oxide; Peroxynitrite; Transgenic mice (Hirabayashi, H. (852) 319)

Middle cerebral artery occlusion; Morphometry; Brain; Rat (Lin, B. (865) 237)

Rat basilar artery; Neuronal nitric oxide synthase; Cyclic GMP; Acetylcholine; Bradykinin (Benyó, Z. (877) 79)

Endotoxin
Palatability; Water intake; Sickness behavior; Acute phase response; Taste reactivity test; Satiety (Cross-Mellor, S.K. (861) 220)

Energy
^{14}C-lactate; Fluid percussion injury (Chen, T. (861) 281)

Energy depletion
OB protein; Lateral hypothalamus; Feeding behavior (Richy, S. (862) 276)

Energy expenditure
Paraventricular nucleus; Neuropeptide Y; Norepinephrine; Muscimol; Respiratory quotient (Bishop, C. (865) 139)

Energy homeostasis
CRH; Dorsal vagal complex; Caudal brainstem; Feeding; Body weight (Grill, H.J. (867) 19)

Energy metabolism
Salsolinol; 1-Methyl-4-phenylpyridinium (MPP^+); Neurotoxicity; Parkinson's disease (Storch, A. (855) 67)

Ischemic preconditioning; Cerebral hypoperfusion; Systemic hypotension (Plaschke, K. (858) 363)

Energy regulation
Opioids; NPY; Melanocortin (Kim, E.-M. (862) 11)

Enkephalin
Biological rhythm; Intergeniculate leaflet; Circadian (Byku, M. (857) 1)

Nerve lesion; Inflammation; Nociception; Dynorphin B; Nociceptin; Descending pathway; Periaqueductal gray (Rosén, A. (857) 212)

Biological rhythm; Suprachiasmatic nucleus (Byku, M. (873) 189)

eNOS
Calretinin; Calbindin; nNOS; ChAT; GABA; Confocal microscopy (Cuenca, N. (878) 228)

Ensaculin
Excitotoxicity; Glutamate; Hydroxyl radical; Microdialysis; Neuroprotection (Teismann, P. (857) 165

Ensheathing cell
Axon regeneration; Schwann cell; Olfactory; Spinal cord injury (Imaizumi, T. (854) 70)

Glial growth factor 2; Ultrastructure; Proliferation; Tissue culture; Neuregulin (Chuah, M.I. (857) 265)

Enteric nervous system
Cholecystokinin; Myenteric plexus; Vagotomy; Capsaicin; Brain; Immunohistochemistry (Sayegh, A.I. (878) 155)

Entorhinal cortex
Epilepsy; Anticonvulsants; 4-Aminopyridine; Rat (Brückner, C. (859) 15)

Neonatal lesion; Neural development; Dopamine metabolism; Schizophrenia (Uehara, T. (860) 77)

Hippocampus; Brain slices; Long-term potentiation; Long-term depression; Prenatal morphine exposure; Seizure susceptibility; Synaptic plasticity (Velíšek, L. (869) 186)

Pentraxin; Pyramidal neuron; Hippocampus; Liver; Cerebellum; Western blot; In situ hybridization; mRNA; Immunohistochemistry (Yasojima, K. (887) 80)

Entorhino-hippocampal system
Fluoro-Jade; Staining; Neurodegeneration; AChE; Deafferentation; Rat (Savaskan, N.E. (864) 44)

Entrainment
Circadian rhythm; Phase shift; Non-photic; Morphine; Opioid; Fentanyl; μ Receptor; Superior colliculus (Meijer, J.H. (868) 135)

Melatonin; Serotonin; 5,7-dihydroxytryptamine; SCN; Rat (Slotten, H.A. (876) 10)

TGR(mRen2)27; Suprachiasmatic nucleus; c-fos mRNA; Heart rate; Blood pressure (Lemmer, B. (883) 250)

Re-entrainment
Circadian clock; Aging; Jet lag; Melatonin; Agonist (Weibel, L. (880) 207)

Environment
Ethanol tolerance; Calcium channel antagonist; Dihydropyridine; Learning (Smith, J.W. (863) 9)

Environmental enrichment
Synaptic plasticity; Memory; NMDA receptor; Long-term potentiation (Foster, T.C. (871) 39)

Enzyme-linked immunosorbent assay
Human brain; Acetylcholinesterase; Epitopes; Combinatorial chemical synthesis; Polyclonal antibody (Zhang, X.-M. (868) 157

Ependymal cell
PMA; Intercellular junction; Blood–CSF barrier; Permeability (Lippoldt, A. (854) 197)

Endocytosis; Immunocytochemistry; Receptor; Transthyretin (Kuchler-Bopp, S. (870) 185)

Epibatidine
Nicotinic acetylcholine receptor; Nicotine; Methyllycaconitine; γ-Aminobutyric acid receptors; Muscimol; Long-term potentiation; Hippocampus (Fujii, S. (863) 259)

Epidemiological studies
Cerebral ischemia; Estrogens; Gender (Vergouwen, M.D.I. (878) 88)

Epidermal growth factor
Parathyroid hormone-related protein; Astrocyte; Tumor necrosis factor; Proliferation (Shankar, P.P. (868) 230)

Epidermal innervation
Calcitonin gene related peptide; Chronic constriction injury; Nerve regeneration; Protein gene product 9.5; Tumor necrosis factor (Lindenlaub, T. (866) 15)

Epilepsy
Seizure; Kainate; Cerebral glucose metabolism; [^{14}C]2-Deoxyglucose; Neuronal damage (Bouilleret, V. (852) 255)

Somatostatin; Neuropeptide Y; Lidocaine kindling; Gene expression (Nagaki, S. (852) 470)

Kindling; Status epilepticus; Temporal lobe (Potschka, H. (855) 252)

SEZ gene; Gene mapping; Pentylenetetrazol susceptible QTL; Linkage analysis; Seizure (Wakana, S. (857) 286)

Anticonvulsants; 4-Aminopyridine; Rat; Entorhinal cortex (Brückner, C. (859) 15)

Nefiracetam; Anticonvulsant; Peripheral-type benzodiazepine receptor; Ro 5-4864; EL mouse (Shiotani, T. (859) 255)

Calcium-activated potassium channel; Bursting activity; Iberiotoxin; Pentylenetetrazol; Intracellular calcium; El mouse (Jin, W. (860) 21)

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Tissue plasminogen activator; tPA; Kindling; Serine protease; Hippocampus (Hoffman, K.B. (861) 178)

Afterdischarge; Ictal activity; GABA; Disinhibition; Hippocampal slice (Higashima, M. (865) 186)

γ-Aminobutyric acid; Glutamate; Ethanol withdrawal; Inferior colliculus; Seizure (Faingold, C. (868) 287)

Magnetic stimulation; Hippocampus; Epileptiform activity; Transcranial magnetic stimulation (Dobson, J. (868) 386)

Neuropeptide Y; Hippocampus; Dentate hilus; Subiculum; Mongolian gerbil (Kang, T.-C. (870) 179)

Adenosine; Inosine; Hypoxanthine; Xanthine; Microdialysis; Hippocampus; Kainate; Pentylenetetrazol; Bicuculline; Adenosine deaminase (Berman, R.F. (872) 44)

Na^+/H^+-exchanger; Na^+-dependent Cl^-/HCO_3^--exchanger; Amiloride; DIDS; Harmaline; Intracellular pH; Excitability; Neuroprotection (Bonnet, U. (872) 116)

Anticonvulsant; Phenytoin; Benzodiazepine; Pharmacology; Neocortex; rat (Francis, J. (876) 131)

Zinc; Neuropeptide Y; PC12 cell; Acetylcholinesterase; Dihydropyridine; Feeding behavior (Schwartz, P.J. (877) 12)

Cholinergic system; Saporin; Flurothyl; Pentylenetetrazole (Silveira, D.C. (878) 223)

Brainstem; *N*-methyl-D-aspartate; Convulsion; Audiogenic seizures; Rat (Ishimoto, T. (881) 152)

Somatostatin; Hippocampus; Dentate hilus; Subiculum; Mongolian gerbil (Kang, T.-C. (882) 55)

GABA receptor; Glutamate receptor; Stroke (Empson, R.M. (884) 31)

Medial preoptic area; GnRH pulse generator; Hypothalamus; Puberty (Illig, A.M. (885) 192)

Epileptiform activity
Magnetic stimulation; Epilepsy; Hippocampus; Transcranial magnetic stimulation (Dobson, J. (868) 386)

Hippocampal slice; Pentylenetetrazol; Long-term potentiation; Potentiation phenomenon; Primed-burst (Omrani, A. (877) 176)

Epileptogenic activity
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Epinephrine
Adrenergic neuron; Estrogen receptor; c-fos; Estrous cycle (Lee, E.-J. (875) 56)

Phenylbiguanide; Bezold-Jarisch reflex; Sympathoinhibition; Intermediolateral cell column;

Rostral ventrolateral medulla (Cao, W.-H. (887) 46)

Epithelium
Cornea; Mitosis; Colchicine; Wound healing; Limbus; Conjunctiva (Zagon, I.S. (882) 169)

Epitopes
Human brain; Acetylcholinesterase; Combinatorial chemical synthesis; Polyclonal antibody; Enzyme-linked immunosorbent assay (Zhang, X.-M. (868) 157)

Epoxyeicostrienoic acid (EET)
Spreading depression; Cerebral ischemia; Penumbra; Cerebral blood flow; Indomethacin (Shimizu, K. (861) 316)

EPSP
Visual cortex; Metabotropic glutamate receptor; Transmitter release; Rat (Flavin, H.J. (873) 212)

Carbachol; Glutamate; Neocortex; Mouse (Hsieh, C.Y. (880) 51)

Nicotine; Acetylcholine; Rat; Neocortex; Electrophysiology (Chu, Z.G. (887) 399)

Equilibrium receptor
cGMP; cAMP; Hair cell; Vestibular; Invertebrate (Tu, Y. (865) 211)

Equilibrium receptor organ
Nitric oxide; cAMP; Hair cell; Vestibular; Invertebrate (Tu, Y. (880) 65)

c-*erb*B2
Autocrine; Cerebral cortex; Glia; Local circuit neuron; Neurotrophin; Pyramidal neuron; White matter (Miller, M.W. (852) 355)

ERK
Glutamate; Excitotoxicity; Apoptotic-like death; Cultured cortical neuron; Rat (Jiang, Q. (857) 71)

Laminin; Axon growth; Integrins; Chick embryo (Dimitropoulou, A. (858) 205)

Error
Motor learning; Plasticity; Cerebellum; Long-term depression; Signal transduction (Ito, M. (886) 237)

Escape deficit
Morphine sensitization; Stress; D_1-dopamine receptor; Dopamine (Scheggi, S. (853) 290)

ESI–MS
APGWamide; Neuropeptides; HPLC; *Lymnaea stagnalis*; *Mytilus edulis* (Henry, J. (862) 162)

Ester prodrug
NMDA; Seizure; 7-Chlorokynurenic acid; D-glucose (Battaglia, G. (860) 149

17β-Estradiol
G protein-coupled receptor; Agonist-stimulated [^{35}S]GTPγS binding (Mize, A.L. (859) 326)

Dehydroepiandrosterone; Allopregnanolone; Anoxia; Neurosteroid; Neuron (Marx, C.E. (871) 104)

Estradiol
Hypothalamus; Preoptic area; Protein tyrosine kinase; Adrenergic receptor; Cyclic AMP (Quesada, A. (861) 117)

Sexual differentiation; Defeminization; c-Fos gene expression; Testosterone (Arrieta, I. (867) 100)

Microdialysis; MPTP; Neuroprotection; Neurotoxicity; Nigrostriatal; Parkinson's disease (Disshon, K.A. (868) 95)

Cortex; Neuroprotection; Ischemia; In vitro; Explants; Cell death (Wilson, M.E. (873) 235)

Sex hormone binding globulin; Oxytocin; Estradiol membrane receptors (Caldwell, J.D. (874) 24)

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Estradiol membrane receptors
Sex hormone binding globulin; Estradiol; Oxytocin (Caldwell, J.D. (874) 24)

Estrogen
Gamma aminobutyric acid; Hypothalamus; Oxytocin; Progesterone; Supraoptic nucleus (Amico, J.A. (857) 279)

Ventral mesencephalon; Tyrosine hydroxylase; Female rat (Zsarnovszky, A. (868) 363)

Cerebral ischemia; Epidemiological studies; Gender (Vergouwen, M.D.I. (878) 88)

Prolactin; Pituitary gland; Median eminence; Arcuate nucleus; Periventricular nucleus (DeMaria, J.E. (879) 139)

Arcuate nucleus; Fasting; Leptin; Nitric oxide synthase; Ventromedial hypothalamus (Otukonyong, E.E. (887) 70)

Estrogen receptor
Adrenergic neuron; Epinephrine; c-fos; Estrous cycle (Lee, E.-J. (875) 56)

Aromatase; Hypothalamus; Frog (Guerriero, G. (880) 92)

DRG; Avian embryo (Cui, S. (882) 236)

Estrogen receptor-α
Immunocytochemistry; Hypothalamus; Basal forebrain; Human (Donahue, J.E. (856) 142

Estrous cycle
Astrocytes; GFAP; Immunohistochemistry; Midbrain (Hajós, F. (862) 43)

Adrenergic neuron; Epinephrine; Estrogen receptor; c-fos (Lee, E.-J. (875) 56)

Female rat; Vaginocervical stimulation; Fos; Lumbosacral spinal cord (Ghanima, A. (880) 109)

Ethanol
PYY; [Pro^{34}]PYY; Gastric protection; RX 77368; Gastric lesion (Kawakubo, K. (854) 30)

Locomotor activity; Sensitization; Reward; Nitric oxide synthase (Itzhak, Y. (858) 402)

Apoptosis; Caspase-3; Neurodegeneration; Striatum; Glutamate receptor agonist (Nakai, M. (859) 207)

Hydrogen peroxide; Nicotinic receptor; PC12 cell; Neuroprotection; Oxidative stress (Li, Y. (861) 165)

L-Sulpiride; SCH 23390; Ascorbic acid; 6-Hydroxydopamine; Microdialysis; Rat (Liu, W. (869) 31)

Place cell; Hippocampus; Complex spike cell; Interneuron; Spatial (White, A.M. (876) 154)

Psychostimulant; c-Fos; FosB (Ryabinin, A.E. (877) 251)

U-99194A; Conditioned place preference; Mice; Swiss–Webster (Boyce, J.M. (880) 202)

Ethanol tolerance
Calcium channel antagonist; Dihydropyridine; Learning; Environment (Smith, J.W. (863) 9)

Ethanol withdrawal
γ-Aminobutyric acid; Glutamate; Inferior colliculus; Seizure; Epilepsy (Faingold, C. (868) 287)

Ether stress
Prolactin; Prolactin-releasing peptide; Vasoactive intestinal peptide; Suckling (Watanobe, H. (865) 91)

***N*-Ethylmaleimide**
Sulfhydryl; Alkylation; Tetrodotoxin-sensitive; Tetrodotoxin-resistant; Sodium channel; Dorsal root ganglion (Song, J.-H. (855) 267)

***N*-(*N*-Ethyl-*N*-isopropyl)-amiloride**
Cerebral ischemia; Cerebroprotection; Free fatty acid; Phospholipase; Na^+/H^+ exchange; Amiloride derivative (Phillis, J.W. (884) 155)

Eticlopride
Striatum; NMDA receptor antagonist; IBMX; PKA; c-*fos* (Adams, A.C. (885) 201

α-Eudesmol
ω-Agatoxin IVA sensitive Ca^{2+} channel; P/Q-type; Neurogenic vasodilation; Plasma extravasation; Trigeminal ganglion (Asakura, K. (873) 94)

Event-related brain potential
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Evoked activity
PMBSF; Immunotoxin; Nucleus basalis of Meynert; Somatosensory (Herron, P. (872) 71)

Evoked bursting
Veratridine; Carbamazepine; Spontaneous bursting; Brain slice; Therapeutic; Hippocampus (Otoom, S.A. (885) 289)

Evoked potential
Tectal commissure; Visual system; Electrophysiology (Keysers, C. (852) 406)

Medial septum complex; Hippocampus; Dentate gyrus; EEG; Unit; Modulation (Carre, G.P. (861) 16)

Physical training; Aging; Somatosensory cortex (Sentürk, Ü.K. (887) 199)

Evoked-[^{3}H]-ACh release
Presynaptic D_2 dopamine receptor; 7-OH-DPAT; 4-AP; TEA; Quinine; Potassium channel-blocker (Sanz, A.G. (874) 116)

Exchange resampling
Metric-space; Spike time; Transinformation; Sensory processing; V1 Neuron; Firing rate; Interspike interval; Poisson (Victor, J.D. (886) 33)

Excitability
Inositol 1,4,5-triphosphate; Intracellular calcium; Spontaneous calcium transients (Carey, M.B. (862) 201)

Hippocampus; Streptozotocin; Neuropathy; Diabetes; Conduction velocity (Candy, S.M. (863) 298)

Na^+/H^+-exchanger; Na^+-dependent Cl^-/HCO_3^--exchanger; Amiloride; DIDS; Harmaline; Intracellular pH; Epilepsy; Neuroprotection (Bonnet, U. (872) 116)

Excitability change
Sleep spindle; Brainstem; Brainstem auditory evoked potential (Kohsaka, S. (882) 103)

Excitatory amino acid
Adenosine; Microdialysis; Spinal cord injury; Theophylline (McAdoo, D.J. (854) 152)

Vestibular; Oculomotor; Glutamate; NMDA; AMPA; Neural integrator (Priesol, A.J. (857) 252)

Rat; Neuropathic pain; Fentanyl; Kainate receptor (Ta, L.E. (858) 106

Glutathione; Cerebellum; Reactive oxygen species; Neurodegeneration; Development (Ceccon, M. (862) 83)

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Brain slice; Ischemia; Hypoxia; Glucose metabolism; Free radical (Murata, T. (865) 259)

Amino acid transport reversal; Dihydrokainic acid; Microdialysis; Spinal cord injury (McAdoo, D.J. (865) 283)

Cholera toxin; Pertussis toxin; Pain; Spinal cord (Chung, K.M. (867) 246)

Newborn; Cerebral circulation; Opioid (Armstead, W.M. (868) 48)

Hyperglycemic stroke; Insulin; GABA (Guyot, L.L. (872) 29)

Excitatory amino acid receptor
Baroreflex; Heart rate; Arterial pressure; Parasympathetic tone; AP-5; Methyl-atropine (Canesin, R.O. (852) 68)

Terfenadine; histamine; reactive oxygen species; intracellular calcium; cultured cerebellar neurons. (Díaz-Trelles, R. (880) 17)

AMPA receptor; Calcium; Neurotoxicity; Ischemia; Seizure (Tanaka, H. (886) 190)

Excitatory opioid receptor function
Mouse strain 129/SvEv; Morphine tolerance; Antinociceptive tail-flick assay; GM1 ganglioside; Naltrexone (Crain, S.M. (856) 227)

Excitatory postsynaptic potential
Taurine; GABA; $GABA_A$ receptor; $GABA_B$ receptors; Slow inhibitory postsynaptic potential (Del Olmo, N. (864) 298)

Group I metabotropic glutamate receptors; Spinal cord dorsal horn; Slice-intracellular recording technique (Zhong, J. (887) 359)

Excitotoxicity
Glutamate; Perilymph; Microdialysis; Drug-induced ototoxicity (Matsuda, K. (852) 492)

Flupirtine; Retinal ganglion cell; Neuroprotection; Ischaemia (Nash, M.S. (856) 236)

ERK; Glutamate; Apoptotic-like death; Cultured cortical neuron; Rat (Jiang, Q. (857) 71)

Glutamate; Hydroxyl radical; Ensaculin; Microdialysis; Neuroprotection (Teismann, P. (857) 165)

Free radical; Mitochondria; Malonate; *N*-methyl-D-aspartate; Creatine; Nicotine (Malcon, C. (860) 195)

Calcium binding protein; Colocalization; GABA; GluR1; Metabotropic glutamate receptor; Somatostatin; Tyramide signal amplification (Stinchelfer, S. (861) 37)

Low-affinity kainate receptors; Cortical neuron culture; LY339434; NMDA receptors (Moldrich, R.X. (862) 270)

Amino acid transport blocker; DL-*threo*-β-Benzyloxyaspartate; Glutamate; Aspartate; Taurine; Reversed transport (Phillis, J.W. (868) 105)

Neurodegeneration; Hippocampus; Apolipoprotein E; Mouse (Grootendorst, J. (868) 165)

Spinal cord; mGluR; Sciatic nerve (Anneser, J.M.H. (868) 215)

Macular degeneration; TPEN; Cycloheximide; DEVD; ZVAD (Hyun, H.J. (869) 39)

Spinal cord trauma; Oxidative stress; Glutamate release; Glucocorticoids (Mu, X. (870) 66)

Riluzole; Spinal cord; Glutamate uptake; Amyotrophic lateral sclerosis; G protein (Azbill, R.D. (871) 175)

Amino acid; Cell swelling; Controlled cortical impact injury; High-performance liquid chromatography; Volume-regulation (Stover, J.F. (875) 51)

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δ-opioid receptors; Hypoxia; Glutamate; Neurons; Protection (Zhang, J. (885) 143)

Extracellular signal-regulated kinase; Glutamate receptor; Protein kinase; Protein phosphatase; Cortical neuron (Jiang, Q. (887) 285)

Excitotoxin
Kainic acid; Fluoro-Jade; Black-Gold; Brain pathology (Hopkins, K.J. (864) 69)

Exendin (5–39)
β-Amyloid protein; Apoptosis; Glucagon-like peptide-1; Hippocampus; Memory (Oka, J.-I. (878) 194)

Exercise
Group III muscle afferent; Cat; Cardiovascular control (Degtyarenko, A.M. (880) 178)

β-Endorphin; Motoneuron; Pro-opiomelanocortin; Nerve stimulation (Hughes, S. (887) 191)

Exocytosis
Orthovanadate; Phosphotyrosine; Noradrenaline release; PC12 cells (Kitamura, T. (854) 165

ATP; Purinergic receptor; Ca^{2+} channels; Autoinhibition (Harkins, A.B. (885) 231)

Experimental allergic encephalomyelitis
Nitric oxide; Rat; Nitric oxide inhibitor (Pozza, M. (855) 39)

GATA-3; Immune-privilege; Interleukin-4; Interleukin-10 (Lovett-Racke, A.E. (870) 27)

Experimental pain
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Experimental parkinsonism
Apoptosis; Caspase-1; Caspase-3; Dopamine depletion; Trypsin inhibition; Striatum (Usha, R. (882) 191)

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Estradiol; Cortex; Neuroprotection; Ischemia; In vitro; Cell death (Wilson, M.E. (873) 235)

Exploratory behavior
Conditioned fear; Blood pressure; Heart rate; Radio-telemetry; Freezing (Carrive, P. (858) 440)

Expression
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Extended amygdala
GAD; Interneuron; CRF; Drug addiction (Criado, J.R. (861) 173)

External calcium concentration
Isolated muscle spindle; Impulse activity; Ramp-and-hold stretch; Stretch sensitivity; Adaptation (Fischer, M. (875) 78)

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Extinction
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Extracellular direct-current (DC) potential
Mongolian gerbil; Spreading depression; NADH fluorescence image; Regional cerebral blood flow (regional CBF); Mitochondrial redox state (Hashimoto, M. (872) 294

Extracellular glutamate
Basolateral amygdala; GABA; Noise stress; Hypertension; Spontaneously hypertensive rat (Singewald, N. (864) 138)

Extracellular K^+
Aging rat; Mitochondrial redox state; Carbon monoxide effect; Cerebral blood flow (Mendelman, A. (867) 217)

Cortical spreading depression; Mitochondrial NADH; Brain oxygenation; Hypoxia; Ischemia (Sonn, J. (882) 212)

Extracellular matrix
CNS; Development; Matrix metalloproteinase; MMP (Jaworski, D.M. (860) 174)

Ankyrin; Chondroitin sulphate proteoglycan; Neurocan; Perineuronal net; Phosphacan; WFA (Haunsø, A. (864) 142)

Extracellular pH
Acidosis; CA1; Carboxy-SNARF-1; HEPES; Intracellular pH (Roberts, E.L. (875) 171)

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Cardiovascular control; Interhemisphere; Electrical and chemical stimulation (Zhang, Z.-H. (863) 25)

Extracellular serotonin (5-HT)
Conditioned fear; Locus coeruleus (LC); Arterial blood pressure; Motility; Heart rate; Telemetric recording; Push–pull superfusion (Kaehler, S.T. (859) 249)

Extracellular signal-regulated kinase
c-Jun N-terminal protein kinase; Phosphorylation; Ischemic tolerance; Brain (Gu, Z. (860) 157)

Excitotoxicity; Glutamate receptor; Protein kinase; Protein phosphatase; Cortical neuron (Jiang, Q. (887) 285)

Extracellular signal-regulated protein kinase/mitogen-activated protein kinase
Immunohistochemistry; Formalin; Caudal subnucleus of the trigeminal spinal nucleus (Huang, W.J. (861) 181)

Extrapyramidal system
Functional magnetic resonance imaging; Striatum; Putamen; Motor control; Laterality; Inhibition (Scholz, V.H. (879) 204)

Extrinsic
Inhibitory circuits; Cell distribution; Immunocytochemistry; Intrinsic (Gómez-Urquijo, S.M. (862) 171)

Eyeblink
Protein kinase; Classical conditioning; Plasticity; Cerebellum; Interpositus nucleus (Chen, G. (856) 193

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F

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L-DOPA; Blood–brain barrier; System L; LAT1 (Kageyama, T. (879) 115)

C-FABP
E-FABP; DA11; KLBP; Fatty acid lipid binding; Neuronal migration and differentiation (Liu, Y. (852) 16)

E-FABP
DA11; KLBP; C-FABP; Fatty acid lipid binding; Neuronal migration and differentiation (Liu, Y. (852) 16)

Facial nerve
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Fas
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FITC–dextran
FITC–albumin; Sodium fluorescein; Cerebral venule; Pial arteriole; Nitric oxide; L-NMMA; Rhodamine 6G; Brain, rat (Mayhan, W.G. (855) 143)

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Footprint
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geminal spinal nucleus (Huang, W.J. (861) 181)

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Formalin-induced nociception
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Intracerebroventricular administration; Feeding; Nociceptin/orphanin FQ (Olszewski, P.K. (855) 171)

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Taste aversion; Learning; Context; Nucleus of the solitary tract (NTS); Pontine parabrachial nucleus (PBN); LiCl (Swank, M.W. (862) 138)

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Conditioned taste aversion; Feeding; Nociceptin/orphanin FQ; Nocistatin; Oxytocin; Vasopressin (Olszewski, P.K. (872) 181)

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Feeding; Nociceptin/orphanin FQ; Naloxone; [$Phe^1\psi(CH_2NH)Gly^2$]nociceptin(1-13)-NH_2 (Olszewski, P.K. (876) 95)

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Chronic-intermittent hypoxia; Rat; Paraventricular thalamic nucleus; Habenular nucleus (Sica, A.L. (883) 224)

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Nucleus tractus solitarius; Learning; Lithium chloride; Aversion conditioning; Amygdala, Pontine parabrachial nucleus (Navarro, M. (887) 450)

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Olfactory system; Predator odor; Fox urine; Circadian rhythm; Rat (Funk, D. (866) 262)

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FosB
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Psychostimulant; Ethanol; c-Fos (Ryabinin, A.E. (877) 251)

c-*fos*–2DG joint analysis
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Fos-immunoreactivity
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Rat pineal; Okadaic acid; cAMP; cAMP response element binding protein (CREB); Arylalkylamine *N*-acetyltransferase; Inducible cAMP early repressor (ICER); JunB (Spessert, R. (864) 270)

Fourth ventricle
Parabrachial nucleus; Nucleus of the solitary tract; Pedunculopontine tegmental nucleus; Food intake; Microinjection; Midazolam; Benzodiazepine; GABA; Palatability; Hedonic; Aversive; Taste; Pleasure; Reward (Söderpalm, A.H.V. (877) 288)

Fox urine
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Fractionator
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Fragile X syndrome
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Fra-2
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Free fatty acid
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Cerebral ischemia; Cerebroprotection; Phospholipase; Na^+/H^+ exchange; Amiloride derivative; *N*-(*N*-ethyl-*N*-isopropyl)-amiloride (Phillis, J.W. (884) 155

Free hydroxyl radical
Hypoxia preconditioning; Pentylenetetrazol (PTZ); Seizure; Salicylate trapping (Rauca, C. (868) 147)

Free radical
Kainic acid; Neurodegeneration; Hippocampus; Superoxide; Cu,Zn-superoxide dismutase; Astrocyte; Microglia (Kim, H.-C. (853) 215)

Protein synthesis; Anoxia/aglycemia; *N*-Methyl-D-Aspartate; Vitamin E; *N*-Acetylcysteine (Monje, M.L. (857) 172)

Excitotoxicity; Mitochondria; Malonate; *N*-methyl-D-aspartate; Creatine; Nicotine (Malcon, C. (860) 195)

Cerebral ischemia; Reperfusion; Nitric oxide (Solenski, N.J. (862) 262)

Brain slice; Ischemia; Hypoxia; Glucose metabolism; Excitatory amino acids (Murata, T. (865) 259)

Migraine; Cortical spreading depression; Sumatriptan (Read, S.J. (870) 44)

Axotomy; Axonal regeneration; Lizard; Neuroplasticity; Sensory neurons; Dorsal horn. (Cristino, L. (871) 83)

Ischemia; Hippocampus; Infarct; Apoptosis; Inflammation (Li, H. (877) 7)

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Free radical scavenger
Dopamine depletion; Glutathione; Hydroxyl radicals; Nucleus caudatus putamen; Salicylic acid; Neuroprotection; MPTP (Mohanakumar, K.P. (864) 281)

Freely moving
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Freezing
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Frequency discrimination
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Frequency tuning curve
Bat; Bicuculline; GABAergic inhibition; Inferior colliculus (Jen, P.H.-S. (862) 127

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Frontal cortex lesion
Somatosensory asymmetry; Amygdala; Phenobarbital; bFGF (Montañez, S. (860) 29)

FTDP-17
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Functional hyperemia
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Functional magnetic resonance imaging
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Functional recovery
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Nerve growth factor; Ischemia; Neurotrophin; Spinal cord (Bowes, M. (883) 178

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Fura-2 microfluorometry
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Fura-PE3
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$GABA_B$ receptor; Heteromeric; G protein-coupled receptor; Metabotropic receptor; Baclofen (Clark, J.A. (860) 41)

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Parabrachial nucleus; Nucleus of the solitary tract; Pedunculopontine tegmental nucleus; Fourth ventricle; Food intake; Microinjection; Midazolam; Benzodiazepine; Palatability; Hedonic; Aversive; Taste; Pleasure; Reward (Söderpalm, A.H.V. (877) 288)

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Sensitization; Locomotor activity; Psychostimulants; Dopamine (Yang, P. (887) 276)

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$GABA_B$ receptor; Nitric oxide; Footshock; Medial prefrontal cortex (Ishizuka, Y. (872) 266)

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$GABA_B$ receptor
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Taurine; GABA; $GABA_A$ receptor; Excitatory postsynaptic potential; Slow inhibitory postsynaptic potential (Del Olmo, N. (864) 298)

$GABA_A$ receptor; Nitric oxide; Footshock; Medial prefrontal cortex (Ishizuka, Y. (872) 266)

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NMDA receptor; Neuroprotection; Phencyclidine receptor; GK11 (Hirbec, H. (859) 177)

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Galanin receptors
Galanin; Restraint stress; Rat; CNS; Spontaneously hypertensive rat (Sweerts, B.W. (873) 318)

Galantide
Galanin; Opioid; Nociceptive test; Mononeuropathy (Zhang, Y.-P. (852) 485)

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Gastric protection
PYY; [Pro^{34}]PYY; RX 77368; Ethanol; Gastric lesion (Kawakubo, K. (854) 30)

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GBR12909
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Adeno-associated virus; Choline acetyltransferase; Gene transfer; Morris water task; NGF (Klein, R.L. (875) 144

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Adeno-associated virus; Choline acetyltransferase; Gene therapy; Morris water task; NGF (Klein, R.L. (875) 144)

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Gene-transfer
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Glial cell line-derived neurotrophic factor
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Glial fibrillary acid protein
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Glial fibrillary acidic protein
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Glucose; Lactate; Pyruvate; Model (Darbin, O. (881) 121)

Gliosis
Nucleus basalis lesion; Alzheimer's disease models; Astrocytes; GFAP; Cortical cholinergic innervation; Ageing (Monzón-Mayor, M. (865) 245)

Glipizide
ATP-sensitive potassium channel; Sulfonylurea; GABA; Striatum; Microdialysis; Bicuculline; Nigrostriatal; K_{ATP} (Levin, B.E. (874) 158)

Global cerebral ischemia
Diffusion-weighted magnetic resonance imaging; Sodium channel blocker (Koinig, H. (887) 301)

Global ischemia
Hippocampus; CNTF; CNTFRα; Glial fibrillary acidic protein; Astrocyte (Park, C.K. (861) 345)

Cerebral ischemia; Neuroprotection; Clomethiazole; Focal ischemia (Sydserff, S.G. (862) 59)

Gerbil; Hippocampus; Immunohistochemistry; Metabotropic glutamate receptors; Preconditioning (Sommer, C. (872) 172)

Ischemic tolerance induction; Activator Protein 1; DNA binding activity; Gerbil (Kapinya, K. (872) 282)

Globus pallidus
Subthalamic nucleus; Spike train; Chaotic attractor; Firing pattern; Neuron; Substantia nigra (Ryan, L.J. (873) 263)

Microdialysis; Capillary electrophoresis; Glutamate (Pérez, J. (877) 91)

Glossopharyngeal ganglia
Lacrimal gland; Pterygopalatine ganglion; Otic ganglion; Vagal ganglia; Cholera toxin B subunit (Cheng, S.-B. (873) 160)

Glucagon-like peptide-1
β-Amyloid protein; Apoptosis; Exendin (5–39); Hippocampus; Memory (Oka, J.-I. (878) 194)

Glucocorticoid
Interleukin-1β; Stress; Brain; Pituitary; Serum (Nguyen, K.T. (859) 193)

4-Hydroxy-2-nonenal; Streptozotocin; Radioimmunocytochemistry; Allostasis (Reagan, L.P. (862) 292)

Macrophage migration inhibitory factor; Hippocampal cell; Neocortical cell; Neuron (Vedder, H. (869) 25)

Spinal cord trauma; Oxidative stress; Glutamate release; Excitotoxicity (Mu, X. (870) 66)

Stress; Hippocampus; Selective Vulnerability; Metabolism (Yusim, A. (870) 109)

Self-stimulation; Corticosterone; Rat; Stress; Behavior (Barr, A.M. (875) 196)

Rat; Adrenal gland; In situ hybridization; Capsaicin; Cathecolamine (Honkaniemi, J. (877) 203)

Hippocampus; Acetylcholine; Vascular dementia (Umegaki, H. (881) 241)

A1/C1; A2/C2; Fos; *c-fos*; Retrograde axon tracer; Glucocorticoid receptor; HPAA (McDonald, T.J. (885) 70)

Stress; Homeostasis; Allostasis; Immune function; Adaptive plasticity; Hippocampus; Dendrite; Neurotransmitter; Adrenalectomy; Adrenal steroid; Learning; Memory; Cognitive function; Psychiatric disorder (McEwen, B.S. (886) 172)

Glucocorticoid receptor
Corticosterone; Western blot; Hippocampus; Cortex; Hypothalamus (Spencer, R.L. (868) 275)

Pig; Western blotting; Brain; Pituitary gland (Weaver, S.A. (869) 130

Development; Limbic system; Hypothalamus; Sheep (Andrews, M.H. (878) 174)

A1/C1; A2/C2; Fos; *c-fos*; Glucocorticoid; Retrograde axon tracer; HPAA (McDonald, T.J. (885) 70)

Glucocorticosteroids
Dexamethasone; Corticosterone; Schwann cells; Myelin; P_0 and PMP22 gene promoters (Désarnaud, F. (865) 12)

Glucoprivation
5-Thioglucose; Adrenal medulla; Food intake; Blood glucose; Glucoreceptor (Ritter, S. (856) 37)

Glucoreceptor
5-Thioglucose; Glucoprivation; Adrenal medulla; Food intake; Blood glucose (Ritter, S. (856) 37)

Glucose
Liver; Paraventricular nucleus; Pseudorabies virus; Suprachiasmatic nucleus; Sympathetic/parasympathetic (La Fleur, S.E. (871) 50)

Lactate; Pyruvate; Glioma; Model (Darbin, O. (881) 121)

Glucose metabolism
Brain slice; Ischemia; Hypoxia; Free radical; Excitatory amino acids (Murata, T. (865) 259)

Glucose transport
Adenovirus; Neuron death; 3-Nitropropionic acid; Striatum; Gene therapy; Neuronal energetics (Fink, S.L. (859) 21)

Glucose transporter
Brain; Gestational hypoxia; Development; Thyroid hormone receptor; HIF-1α (Royer, C. (856) 119)

GluR1
Calcium binding protein; Colocalization; Excitotoxicity; GABA; Metabotropic glutamate receptor; Somatostatin; Tyramide signal amplification (Stinehelfer, S. (861) 37)

GluR2; Calbindin-D28k; Digoxigenin; In situ hybridization; Deafferentation (Kondo, M. (883) 238)

GluR2
GluR1; Calbindin-D28k; Digoxigenin; In situ hybridization; Deafferentation (Kondo, M. (883) 238)

Glut1
Chronic hyperglycemia; Glut3; Immunostaining; Local cerebral glucose utilization; Autoradiography; MR spectroscopy (Duelli, R. (858) 338)

Glut3
Chronic hyperglycemia; Glut1; Immunostaining; Local cerebral glucose utilization; Autoradiography; MR spectroscopy (Duelli, R. (858) 338)

Glutamate
Behavioural disorders; Basal ganglia; HPNS; Helium; Neurotransmitters (Darbin, O. (852) 62)

Cerebral cortex; NGF; NMDA; NO; Neurotoxicity (Kume, T. (852) 279)

Perilymph; Microdialysis; Drug-induced ototoxicity; Excitotoxicity (Matsuda, K. (852) 492)

ERK; Excitotoxicity; Apoptotic-like death; Cultured cortical neuron; Rat (Jiang, Q. (857) 71)

Excitotoxicity; Hydroxyl radical; Ebselen; Microdialysis; Neuroprotection (Teismann, P. (857) 165)

Vestibular; Oculomotor; NMDA; AMPA; Neural integrator; Excitatory amino acid (Priesol, A.J. (857) 252)

Ascorbate; Transport; Astrocyte (Wilson, J.X. (858) 61)

Bay x 3702; Neuronal cell; Neuroprotection; S-100β; Staurosporine; 5-HT_{1A} receptor agonist (Ahlemeyer, B. (858) 121)

Delta opioid receptor; Striatum; Naltrindole; [D-$Pen^{2,5}$]-enkephalin; Microdialysis (Rawls, S.M. (861) 296)

Receptors; Calpain; Synapses; Plasticity (Lu, X. (863) 143)

Guanosine; GMP; Seizures; Quinolinic acid; Anticonvulsant (Schmidt, A.P. (864) 40)

Aversive conditioning; Female; Acetylcholine; Hippocampus; Memory; Mice; Ovariectomy; Retention (Farr, S.A. (864) 263)

Suprachiasmatic nucleus; 5-HT receptor; Circadian rhythm; Synaptic inhibition; Serotonin; GABA (Jiang, Z.-G. (866) 247)

Medial prefrontal cortex; D1 dopamine receptor; α-Aminobutyric acid; Microdialysis (Abekawa, T. (867) 250)

5-Aminolevulinic acid; Convulsion; Body asymmetry; γ-Aminobutyric acid; Striatum. (Emanuelli, T. (868) 88)

Amino acid transport blocker; DL-*threo*-β-Benzyloxyaspartate; Aspartate; Taurine; Reversed transport; Cerebral cortex; Excitotoxicity (Phillis, J.W. (868) 105)

γ-Aminobutyric acid; Ethanol withdrawal; Inferior colliculus; Seizure; Epilepsy (Faingold, C. (868) 287)

NMDA; Basal ganglia; *zif268*; *c-fos*; Parkinson (Ganguly, A. (871) 156)

Asphyxia; Hypoxia; Fetus; Brainstem; Umbilical cord (Sakata, Y. (871) 271)

Satiety; Nucleus of the Solitary Tract; Brainstem; MK-801 (Treece, B.R. (872) 37)

Hippocampus; Cerebral ischemia; Microdialysis; Adenosine; Rabbit (Martinez-Tica, J.F. (872) 110)

α_2 agonist; α_{2A} receptor; Anesthetic; Brain; Glutamine (Huang, R. (873) 297)

Rostral ventrolateral medulla; Caudal ventrolateral medulla; Arterial blood pressure; Heart rate (Ishide, T. (874) 107)

Spinal cord blood flow; Headache; NMDA receptor (Goadsby, P.J. (875) 119)

Tourette's syndrome; Obsessive–compulsive; Trichotillomania; Transgenic; Seizure (McGrath, M.J. (877) 23)

Microdialysis; Capillary electrophoresis; Globus pallidus (Pérez, J. (877) 91)

Suprachiasmatic nucleus; Vasoactive intestinal peptide; Vasopressin; Circadian rhythm; Phase-shift (Watanabe, K. (877) 361)

GABA; Patch clamp; Chemoreceptor; Baroreceptor (Kawai, Y. (877) 374)

Opiates; MK-801; NMDA; Plasticity; Temporal dynamics (Kosten, T.A. (878) 20)

Bilirubin; NMDA; Haem oxygenase; Jaundice; Carbon monoxide (Warr, O. (879) 13)

Acoustic startle response; Anxiety; Conditioned fear; Conditioned inhibition; GABA; Periaqueductal gray (Fendt, M. (880) 1)

Carbachol; EPSP; Neocortex; Mouse (Hsieh, C.Y. (880) 51)

Hyperammonemia; Excitotoxicity; Ammonia toxicity; Ischemia (Kosenko, E. (880) 139)

Nucleus accumbens; L-type calcium channels; Microiontophoresis; In vivo extracellular recording (Cooper, D.C. (880) 212)

Hypothermia; Aged; Cerebralischemia; Microdialysis; Taurine (Ooboshi, H. (884) 23)

Retina; Flat mount; Retinal ganglion cell; Cell death; Brain-derived neurotrophic factor; *N*-Methyl-D-aspartate (Kido, N. (884) 59

Neurons; Apoptosis; Platelet-activating factor (PAF) acetylhydrolase; Mitochondrial damage (Hirashima, Y. (885) 128)

δ-opioid receptors; Excitotoxicity; Hypoxia; Neurons; Protection (Zhang, J. (885) 143)

Conditioned taste aversion; Parabrachial nucleus; Microdialysis; Rats (Bielavska, E. (887) 413)

Glutamate immunoreactivity
Centrifugal visual system; Isthmo-optic nucleus; Afferent synaptic terminals; Pigeon; Electron microscopy (Miceli, D. (868) 128)

Glutamate neurotransmission
Cannabinoid; Δ^9-tetrahydrocannabinol; FM1-43; Presynaptic inhibition; Neurotransmitter release (Kim, D.J. (852) 398)

Glutamate NMDA and AMPA receptors
Nicotine; Met-enkephalin; Striatum; Dopamine D1 and D2 receptors; $GABA_A$ and $GABA_B$ receptors (Isola, R. (878) 72)

Glutamate receptor
Median eminence; Immunohistochemistry; Tanycyte; Astrocyte; Rats (Kawakami, S.-i. (858) 198)

Immunocytochemistry; Kainic acid; CNQX (Andrade da Costa, B.L.d.S. (863) 132)

Glutamate transporters; Bergmann glia; Uptake regulation; Cerebellum (González, M.I. (866) 73)

Dopamine; Substantia nigra (Fan, X.-D. (867) 40)

Conditioned taste aversion; Amygdala; Memory (Yasoshima, Y. (869) 15)

Autoradiography; Caudate-putamen; 6-Hydroxydopamine; Parkinson's disease (Tarazi, F.I. (881) 69)

Purinoceptor; Patch-clamp; Rat (Zona, C. (882) 26)

GABA receptor; Epilepsy; Stroke (Empson, R.M. (884) 31)

Extracellular signal-regulated kinase; Excitotoxicity; Protein kinase; Protein phosphatase; Cortical neuron (Jiang, Q. (887) 285)

Glutamate receptor agonist
Apoptosis; Caspase-3; Ethanol; Neurodegeneration; Striatum (Nakai, M. (859) 207)

Glutamate release
Dialysis electrode; Real-time monitoring; Ferrocene; Glutamate re-uptake; Reversed uptake; Ischemia; Normothermia; Hypothermia; In vivo (Asai, S. (864) 60

Spinal cord trauma; Oxidative stress; Glucocorticoids; Excitotoxicity (Mu, X. (870) 66)

Glutamate re-uptake
Dialysis electrode; Real-time monitoring; Ferrocene; Glutamate release; Reversed uptake; Ischemia; Normothermia; Hypothermia; In vivo (Asai, S. (864) 60)

Glutamate transporter
Bergmann glial cell; Glial cell; Purkinje neuron (Suárez, I. (859) 293)

Bergmann glia; Uptake regulation; Glutamate receptors; Cerebellum (González, M.I. (866) 73)

Glutamate uptake
Riluzole; Spinal cord; Amyotrophic lateral sclerosis; Excitotoxicity; G protein (Azbill, R.D. (871) 175)

Glutamatergic synapse
Brain-derived neurotrophic factor; Somatosensory cortex; Silent synapse (Itami, C. (857) 141)

Glutamatergic system
Emotionally motivated learning; Memory modulation; Nociception (Bianchin, M.M. (852) 436)

Glutamine
Voltage sensitive Na^+ channel; Neurotransmitter transporter; Veratridine; High K^+; DOPAC (Sitges, M. (854) 48)

α_2 agonist; α_{2A} receptor; Anesthetic; Brain; Glutamate (Huang, R. (873) 297)

Glutamine synthetase
Astroglia; Mouse; Olfactory bulb; Synaptic plasticity (Okere, C.O. (857) 308)

Glutathione
Sodium-dependence; Membrane transport; Domain specificity (Kannan, R. (852) 374)

L-Buthionine-[*S*,*R*]-sulfoximine; Convulsion; Pentylenetetrazol; Mouse (Abe, K. (854) 235)

Neurotoxicity; Oxidative stress; Lipoic acid; L-homocysteic acid (Lockhart, B. (855) 292)

Ischemia; 8 ohdG; Oxidative stress; HSP (Baek, S.-H. (856) 28)

Dopamine; Apoptosis; Manganese (Stokes, A.H. (858) 1)

Quinolinic acid; Superoxide dismutase; Glutatione peroxidase; Corpus striatum (Rodríguez-Martínez, E. (858) 436)

Excitatory amino acids; Cerebellum; Reactive oxygen species; Neurodegeneration; Development (Ceccon, M. (862) 83

Dopamine depletion; Hydroxyl radicals; Nucleus caudatus putamen; Salicylic acid; Neuroprotection; Free radical scavenger; MPTP (Mohanakumar, K.P. (864) 281)

S-Adenosyl-L-methionine; Lipid peroxidation; Oxidative stress; Ischemia-reperfusion (Villalobos, M.A. (883) 31)

Glutathione status
Kainic acid; Cycloxygenase; Lipoxygenase; Lipid peroxidation; Protein oxidation; Neuronal loss; Hippocampus (Kim, H.-C. (874) 15)

Glutatione peroxidase
Quinolinic acid; Superoxide dismutase; Glutathione; Corpus striatum (Rodríguez-Martínez, E. (858) 436)

Glyceryl trinitrate
Trigeminal; Vascular headache (Lambert, G.A. (887) 203)

Glycine
Monkey; NMDA; Cognition; MPTP (Schneider, J.S. (860) 190)

Colocalization; GABA; GABA transporter (GAT1); Glycine transporter (GLYT2) (Mahendrasingam, S. (887) 477)

Glycine receptor
Electrophysiology; Basolateral amygdala; Strychnine (McCool, B.A. (859) 341)

Melatonin; Cultured spinal neurons; Whole-cell recordings; Noncompetitive inhibition (Wu, F.-S. (881) 208)

Glycine transporter (GLYT2)
Colocalization; GABA; Glycine; GABA transporter (GAT1) (Mahendrasingam, S. (887) 477)

Glycine-binding site
N-Methyl-D-aspartate receptor; SM-18400; Spontaneously hypertensive rat; Bilateral carotid artery occlusion; Brain edema (Ohtani, K.-i. (871) 311)

Glycogen synthase kinase 3β
Insulin-like growth factor-1; Ischemia; MCAO; TUNEL (Wang, J.M. (859) 381)

Tau protein kinase I; Phosphorylated tau; Phosphatase 2A; Phosphatase 2B; Immunohistochemistry (Takahashi, M. (857) 193)

P-Glycoprotein
Blood–inner ear barrier; *mdr1a*(−/−) mice; Adriamycin; Vinblastine; Ototoxicity (Zhang, Z.-J. (852) 116)

GM1
Cerebellum; Ionizing radiation; Motor activity; Neuroprotective agent; X-rays (Guelman, L.R. (858) 303

GM1 ganglioside
Mouse strain 129/SvEv; Morphine tolerance; Excitatory opioid receptor function; Antinociceptive tail-flick assay; Naltrexone (Crain, S.M. (856) 227)

Aging; Pain; Hypoalgesia; Mechanical hyperalgesia; Allodynia (Goettl, V.M. (858) 380)

Retina; Aging; Dopamine; Tyrosine hydroxylase; Mazindol binding; Choline acetyltransferase; Hemicholinium-3 binding (Goettl, V.M. (877) 1)

GMP
Guanosine; Seizures; Glutamate; Quinolinic acid; Anticonvulsant (Schmidt, A.P. (864) 40)

GnRH
Area postrema; Luteinising hormone; Hypoglycaemia (Cates, P.S. (853) 151)

LHRH; mRNA; Excitatory amino acid (Wu, T.J. (862) 238)

GnRH pulse generator
Medial preoptic area; Epilepsy; Hypothalamus; Puberty (Illig, A.M. (885) 192)

Goldfish
AgNOR; Spatial learning; Telencephalon; Teleost fish (Vargas, J.P. (865) 77)

CART peptide; Neuropeptide Y; Orexin A; Feeding behavior; Behavioral activity (Volkoff, H. (887) 125)

Golgi
Subiculum; Sexual dimorphism; Stereology; Synapses; Rat (Andrade, J.P. (875) 125)

Golgi apparatus
Astrocytes; Processes (Gonatas, J.O. (855) 23)

Golgi stain
Sensory deprivation; Naris closure; Olfactory cortex; Cortical plasticity; Synaptic competition; Timm stain; Unilateral olfactory deprivation (Wilson, D.A. (853) 317)

Gonadotropin-releasing hormone
Luteinizing hormone; Fos; Opioid receptor; Naloxone; Puberty (He, D. (858) 129)

gp130
Hypothalamus; JAK-STAT pathway; Neuroendocrine; IL-6; CNTF; LIF (Strömberg, H. (853) 105)

gp91phox
NAD(P)H oxidase; Carotid body; Hypoxic ventilation; Intracellular calcium; Oxygen sensing; Reactive oxygen species (Roy, A. (872) 188)

GPE
Parkinson's disease; Tyrosine-hydroxylase; Neuroprotection; Rat (Guan, J. (859) 286

GR
Transgenic mice; MR; 5-HT_{1A}; 5-HT_{1B}; 5-HT_2 (Farisse, J. (862) 145)

Gracile nucleus
PACAP; PAC_1; Dorsal horn; Dorsal root ganglion; Sciatic nerve transection; Ligand binding (Jongsma, H. (853) 186)

Nitric oxide synthase; NADPH diaphorase; Aging; Immunohistochemistry; Axotomy; Rat (Ma, S. (855) 124)

Gramicidin perforated patch-clamp
Desensitization; Chloride ion channel; Intracellular Cl^- concentration; Strychnine; Picrotoxin (Ye, J.-H. (862) 74)

Granule cell
Hippocampus; Dentate gyrus; Development; Neuronal maturation (Liu, X.-S. (856) 202)

Cerebellum; Fractionator; Mouse; Prenatal irradiation; Stereology (Schmitz, C. (872) 250)

Granulovacuolar degeneration
Tau; Neurofibrillary tangles; Heart; kidney; Liver; Spleen (Yasojima, K. (865) 116)

Grasping
Motor control; Respiratory control; Reaching; Neural coupling (Mateika, J.H. (864) 327)

Group I
A-alpha; A-beta; Afferents; Conduction (Nelson, A.J. (887) 432)

Group I agonists
Metabotropic glutamate receptor; [^{3}H]QA binding; GTP; Scatchard analysis (Hinoi, E. (881) 199)

Group I metabotropic glutamate receptors
Excitatory postsynaptic potential; Spinal cord dorsal horn; Slice-intracellular recording technique (Zhong, J. (887) 359)

Group III afferent fiber
Diaphragmatic fatigue; Skeletal muscle fatigue; Group IV afferent fiber (Hill, J.M. (856) 240)

Group III muscle afferent
Exercise; Cat; Cardiovascular control (Degtyarenko, A.M. (880) 178)

Group IV afferent fiber
Diaphragmatic fatigue; Skeletal muscle fatigue; Group III afferent fiber (Hill, J.M. (856) 240)

Growth cone
GAP-43; RB3; SCG10; SCLIP; Stathmin; Development; Gene expression; Retinal ganglion cell; Process outgrowth; Microtubule (Nakazawa, T. (861) 399

Growth factor
Anteromedial cortex; c-Fos; Immunohistochemistry; Trauma (Kline, A.E. (880) 38)

Pattern formation; Synapse specificity; Superior colliculus; Lateral geniculate nucleus; Visual cortex (Mize, R.R. (886) 15)

Growth hormone
Obesity; Immunohistochemistry; Somatostatin; Hypothalamus (Iqbal, J. (887) 1)

Growth inhibitory factor (GIF)
Metallothionein-III; Glial cell; Dopamine; Dopamine receptor; Antioxidant (Sogawa, C.A. (853) 310)

GTP
Metabotropic glutamate receptor; [^{3}H]QA binding; Group I agonists; Scatchard analysis (Hinoi, E. (881) 199)

[^{35}S]GTP-γS binding
Autoradiography; Dopamine receptor; Rat; Striatum (He, L. (885) 133)

Guanosine
GMP; Seizures; Glutamate; Quinolinic acid; Anticonvulsant (Schmidt, A.P. (864) 40)

Guinea pig
Soluble guanylyl cyclase; Hair cell; Signal transduction; Immunocytochemistry; Nitric oxide synthase; Post-embedding immunolabeling (Heinrich, U.-R. (885) 6)

Gustation
Nucleus of the solitary tract; γ-Aminobutyric acid; Taste; Bicuculline methiodide; Insular cortex (Smith, D.V. (858) 408)

Gustatory
Electrophysiology; Taste responses after adaptation (Di Lorenzo, P.M. (852) 383)

Acid; Binary mixture; Chorda tympani nerve; HCl (Sakurai, N. (859) 369)

Gustatory cortex
Acetylcholine; Rat free-moving microdialysis; Cholinergic basal forebrain (Miranda, M.I. (882) 230)

Gustatory thalamus
VPMpc; Morphine; LiCl; Conditioned taste aversion; Anticipatory contrast (Grigson, P.S. (858) 327)

G_z
G protein; $G_{z\alpha}$-deficient mice; Opioid receptor; Morphine tolerance; Behavioral testing; Analgesia (Hendry, I.A. (870) 10)

$G_{z\alpha}$-deficient mice
G protein; G_z; Opioid receptor; Morphine tolerance; Behavioral testing; Analgesia (Hendry, I.A. (870) 10

H

Habenular nucleus
Chronic-intermittent hypoxia; Rat; *c-fos*; Paraventricular thalamic nucleus (Sica, A.L. (883) 224)

Haem oxygenase
Bilirubin; Glutamate; NMDA; Jaundice; Carbon monoxide (Warr, O. (879) 13)

Hair cell
Acetylcholine receptor; Cochlea; In situ hybridization; Avian; α9; Efferent innervation; Auditory; Polymerase chain reaction; cDNA library (Hiel, H. (858) 215)

cGMP; cAMP; Vestibular; Equilibrium receptor; Invertebrate (Tu, Y. (865) 211)

Nitric oxide; cAMP; Vestibular; Equilibrium receptor organ; Invertebrate (Tu, Y. (880) 65)

Guinea pig; Soluble guanylyl cyclase; Signal transduction; Immunocytochemistry; Nitric oxide synthase; Post-embedding immunolabeling (Heinrich, U.-R. (885) 6)

Lysosome; Aminoglycoside; Ototoxicity; Chicken (Hashino, E. (887) 90)

Hallucinogen
Serotonin; GABAergic; Interneuron; IPSC; Intracellular recording (Liu, R. (873) 34)

Haloperidol
Hypoprolactinemia; Prolactin antiserum; DOPAC; DA (Hentschel, K. (852) 28)

D_1 and D_2 receptors; mRNA; Locomotor activity; Autoradiography (Besret, L. (853) 125)

Dopamine; Tuberoinfundibular; Hypothalamus; Immunoneutralization (Hentschel, K. (857) 110)

Antipsychotic; Clozapine; Dopamine; Risperidone; Striatum (Kruzich, P.J. (875) 35)

Halothane
Pontine reticular formation; Minimum alveolar concentration; Muscarinic receptor subtypes (Ishizawa, Y. (873) 124)

Hamster
Calretinin; Suprachiasmatic; Mouse; Rat; *Arvicanthis niloticus*; Circadian (Marshall, S.T. (854) 216)

Suprachiasmatic nucleus; Aging; 5-HT_{1B} receptors; Serotonin transporter; Circadian rhythms (Duncan, M.J. (856) 213)

Dorsal raphe nucleus; SCN; Serotonin; 5-HT_7 receptor; Circadian rhythm (Glass, J.D. (859) 224

Hand orientation
Prehension; Reaching to grasp movements; Humans (Roby-Brami, A. (869) 121)

Hargreaves test
Rat; Tail-flick test; von Frey test; Touch-evoked agitation test; Microglia; Astrocyte; Spinal cord; Fluorocitrate; CNI-1493; p38 MAP kinase inhibitor (Milligan, E.D. (861) 105)

Harmaline
Na^+/H^+-exchanger; Na^+-dependent Cl^-/HCO_3^--exchanger; Amiloride; DIDS; Intracellular pH; Excitability; Epilepsy; Neuroprotection (Bonnet, U. (872) 116)

HCl
Acid; Binary mixture; Chorda tympani nerve; Gustatory (Sakurai, N. (859) 369)

Head injuries
Hippocampal slice; Hemoglobin; Synaptic transmission; CA1 neuron; Cerebrovascular diseases (Yip, S. (864) 1)

Head movement
Neck muscle; Mastication (Igarashi, N. (871) 151)

Headache
Spinal cord blood flow; Glutamate; NMDA receptor (Goadsby, P.J. (875) 119)

Hearing
Auditory; Stochastic resonance; Noise; Cochlear implant; Brainstem implant; Threshold; Frequency discrimination (Zeng, F.-G. (869) 251)

Heart
Respiration; Effort; Imitation; Motor control (Paccalin, C. (862) 194)

Tau; Neurofibrillary tangles; Granulovacuolar degeneration; kidney; Liver; Spleen (Yasojima, K. (865) 116)

Heart failure
Fos; PVN; SON; Hypothalamus (Patel, K.P. (865) 27)

Heart m2-Muscarinic receptor
Adenylyl cyclase; Adolescence; β-Adrenergic receptor; Nicotine (Chow, F.A. (878) 119)

Heart rate
Baroreflex; Excitatory amino acid receptor; Arterial pressure; Parasympathetic tone; AP-5; Methyl-atropine (Canesin, R.O. (852) 68)

Apnea; Blood pressure; Dorsal respiratory group; Heart rate; Nucleus tractus solitarii; Apnea; Blood pressure; Dorsal group of respiratory neurons (Marchenko, V. (857) 99)

Apnea; Blood pressure; Dorsal respiratory group; Nucleus tractus solitarii; Apnea; Blood pressure; Dorsal group of respiratory neurons; Heart rate (Marchenko, V. (857) 99)

Conditioned fear; Blood pressure; Radio-telemetry; Freezing; Exploratory behavior (Carrive, P. (858) 440)

Conditioned fear; Extracellular serotonin (5-HT); Locus coeruleus (LC); Arterial blood pressure; Motility; Telemetric recording; Push–pull superfusion (Kaehler, S.T. (859) 249)

Rostral ventrolateral medulla; Caudal ventrolateral medulla; Arterial blood pressure; Glutamate (Ishide, T. (874) 107)

Air jet; Swing rotation; Paraventricular nucleus; Norepinephrine; Nitric oxide; Blood pressure (Jin, Q.-H. (876) 205)

TGR(mRen2)27; Suprachiasmatic nucleus; c-fos mRNA; Blood pressure; Entrainment (Lemmer, B. (883) 250)

Heat shock
Oxidative stress; Hsp68; Lipoxygenase; C6 rat glioma cells (Gosslau, A. (864) 114)

Heat shock protein
Brain ischemia; Astrogliosis; Stroke; Stress stimuli; Stress tolerance (Currie, R.W. (863) 169)

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Heat shock protein 70
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Androgenic–anabolic steroid; Morphine; Striatum; Thalamus; β-Endorphin (Harlan, R.E. (853) 99)

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Insulin-like growth factor II receptors
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Senescence-accelerated mouse (SAM); Aging; Interleukin-1β (IL-1β); Tumor necrosis factor (TNF-β); Hippocampus; Cerebral cortex; Hypothalamus; Learning and memory (Tha, K.K. (885) 25)

Intermediate filament
Motoneuron; Sciatic nerve; Transgenic mice (Xu, Z. (866) 326)

Intermediolateral cell column
Phenylbiguanide; Epinephrine; Bezold-Jarisch reflex; Sympathoinhibition; Rostral ventrolateral medulla (Cao, W.-H. (887) 46)

Intermittent cocaine
Sensitization; Dopamine; Nucleus accumbens; (±)-1-(4-Iodo-2; 5-dimethoxyphenyl)-2-aminopropane (DOI); Ketanserin (Yan, Q.-S. (863) 254

Interneuron
GAD; CRF; Drug addiction; Extended amygdala (Criado, J.R. (861) 173)

GDNF; Calcium-binding protein (Sarabi, A. (877) 262)

Serotonin; GABAergic; IPSC; Intracellular recording; Hallucinogen (Liu, R. (873) 34)

Ethanol; Place cell; Hippocampus; Complex spike cell; Spatial (White, A.M. (876) 154)

Mollusc; Octopamine; Long-term; Polycyclic; Snail (Elliott, C.J.H. (887) 63)

Substance P; Calcitonin gene-related peptide; Motor circuitry; Recurrent inhibition (Carr, P.A. (887) 194)

Internuclear neuron
GABA immunocytochemistry; Abducens nucleus; Trochlear nucleus; Oculomotor nucleus; Agnathan (Meléndez-Ferro, M. (855) 150)

Interphotoreceptor retinoid-binding protein
DNA methylation; Photoreceptor; Gene expression regulation; Retina; Pineal gland (Boatright, J.H. (887) 211)

Interpositus nucleus
Protein kinase; Classical conditioning; Eyeblink; Plasticity; Cerebellum (Chen, G. (856) 193)

Plasticity; Learning and memory; Cerebellar cortex; Response timing (Chen, G. (887) 144)

Interpositus–Dentate
Acquisition; Retention; Concurrent Taste Aversion Learning (Mediavilla, C. (868) 329)

Intersegmental coordination
NMDA; Calcium channels; Afterhyperpolarization; Phase lag; Motor control (Tegnér, J. (864) 81)

Interspike interval
Metric-space; Spike time; Transinformation; Sensory processing; V1 Neuron; Firing rate; Exchange resampling; Poisson (Victor, J.D. (886) 33)

Intoxication signs
Hippocampus; Short-term ethanol exposure; Glial fibrillary acidic protein (GFAP); Calbindin D28k (Satriotomo, I. (879) 55)

Intracarotid treatment
Embolic ischemia; TNK-tPA; Unanesthetized rat (Zhang, R.L. (878) 64)

Intracellular adhesion molecule-1
Intracerebral hemorrhage; Inflammation; Microglia; Macrophage; Neutrophil (Gong, C. (871) 57

Intracellular calcium
Calcium-activated potassium channel; Bursting activity; Iberiotoxin; Pentylenetetrazol; Epilepsy; El mouse (Jin, W. (860) 21)

Inositol 1,4,5-triphosphate; Spontaneous calcium transients; Excitability (Carey, M.B. (862) 201)

Formalin-induced nociception; Thapsigargin; Ryanodine; Diabetes (mouse) (Kamei, J. (862) 257)

Sensory neurons; Spinal ganglia; Muscarinic receptors; Signal transduction; Nociception (Tata, A.M. (866) 65)

NAD(P)H oxidase; gp91phox; Carotid body; Hypoxic ventilation; Oxygen sensing; Reactive oxygen species (Roy, A. (872) 188)

Terfenadine; excitatory aminoacid receptors; histamine; reactive oxygen species; cultured cerebellar neurons. (Díaz-Trelles, R. (880) 17)

Persistent sodium current; Sodium channel; External potassium; Seizure; Spreading depression (Somjen, G.G. (885) 102)

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Calcium-binding protein; Nucleus magnocellularis; In situ hybridization; N06 antibody; Cochlea removal (Stack, K.E. (873) 135)

Intracellular Ca^{+2} chelator
Reactive astrocytes; Ca^{+2} channel blockers; Calpain I activation; Calpain inhibitor I; Ca^{+2} ionophore; α-fodrin degradation; GFAP proteolysis (Lee, Y.B. (864) 220)

Intracellular Ca^{2+} concentration
DPDPE; SH-SY5Y cells; Stimulatory effects of opioid (Chen, L. (882) 256)

Intracellular Cl^-
Synchronized activity; GABA (Nakanishi, K. (863) 192)

Intracellular Cl^- concentration
Gramicidin perforated patch-clamp; Desensitization; Chloride ion channel; Strychnine; Picrotoxin (Ye, J.-H. (862) 74)

Intracellular pH
Na^+/H^+-exchanger; Na^+-dependent Cl^- / HCO_3^--exchanger; Amiloride; DIDS; Harmaline; Excitability; Epilepsy; Neuroprotection (Bonnet, U. (872) 116)

Acidosis; CA1; Carboxy-SNARF-1; Extracellular pH; HEPES (Roberts, E.L. (875) 171)

Lactate; Bicarbonate; Hypothermia; Slice culture (Xiang, Z.-M. (881) 77

Intracellular recording
Myocardial infarction; Rat; Slow hyperpolarisation; Vagus; Ventrolateral medulla oblongata (Zagon, A. (854) 172)

Hippocampus; Cannabinoid receptor; GABA; Presynaptic; Postsynaptic (Kirby, M.T. (863) 120)

Bursting cell; Regular firing cell; Accommodation; Afterhyperpolarization (Behr, J. (867) 259)

Motor cortex; Oscillation; Long-lasting hyperpolarization; Long-term potentiation (Kitagawa, H. (869) 69)

Serotonin; GABAergic; Interneuron; IPSC; Hallucinogen (Liu, R. (873) 34)

Intracellular signaling
FGF-2; Hippocampus; Neuronal differentiation; Development; Calcium channel (Katsuki, H. (885) 240)

Intracerebral hemorrhage
Inflammation; Microglia; Intracellular adhesion molecule-1; Macrophage; Neutrophil (Gong, C. (871) 57)

Intracerebral injection
Serotonin; Overeating; Dorsal raphe; Subcutaneous; Brain mapping (Coscina, D.V. (883) 243)

Intracerebroventricular
Interleukin-1 beta (IL-1β); Rat; Hippocampus; Glia; Interleukin-1 receptor antagonist (IL-1ra); Alpha melanocyte stimulating hormone (αMSH) (Pugh, C.R. (861) 8)

Melanocortin; Anorectic; Leptin; Food intake (Edwards, C.M.B. (866) 128)

Melanocortin receptors; Hypothalamus; Appetite; Melanocyte stimulating hormone (Abbott, C.R. (869) 203)

Endomorphin; Mu-opioid receptor; c-FOS; Immunocytochemistry; Tail flick latency (Jiang, Y. (873) 291)

Intracerebroventricular administration
c-Fos; Feeding; Nociceptin/orphanin FQ (Olszewski, P.K. (855) 171)

Intracerebroventricular infusion
IGF-1; Translocation; Ischemia; Apoptosis; Brain (Guan, J. (853) 163)

Neurosteroid; Spatial memory; Mouse (Ladurelle, N. (858) 371)

Intracerebroventricular injection
Fever; Tyrosine kinase; Lipopolysaccharide; Interleukin-1β; Genistein (Tsushima, H. (852) 367

Orexin; NPY; BIBO3304; Y1 receptor antagonist; Food intake (Yamanaka, A. (859) 404)

Intracranial pressure
Meningitis; Hypothermia; Cerebral perfusion pressure; Inflammation; Cleaved Tau protein (Irazuzta, J.E. (881) 88)

Intracranial self-stimulation
3,4-Dihydroxyphenylalanine; 5-Hydroxytryptophan; Medial prefrontal cortex; Nucleus accumbens; Striatum (Nakahara, D. (864) 124)

Reward; CRF; Urocortin; D-Phe CRF_{12-41}; Rat (Macey, D.J. (866) 82)

Intracutaneous stimulus
Ischemic pain; Somatosensory evoked potentials; Auditory evoked potentials; Spontaneous EEG; Diffuse noxious inhibitory controls (Reinert, A. (862) 103)

Intratelencephlic afferent
Visual Wulst; Double labelling; Fluorescent tracer; Chick (Deng, C. (856) 152)

Intrathecal
Nicotinic; Antinociception; Paw withdrawal; Nicotinic acetylcholine receptor; Pain (Rueter, L.E. (872) 93)

Intrauterine neurotoxicity
Methylmercury; Fetal-type Minamata disease; Developing brain (Kakita, A. (859) 233)

Methylmercury; Fetal-type Minamata disease; Memory formation (Kakita, A. (877) 322)

Intra-axonal recording
Neurofilament; Transgenic mouse; Myelinated axon; Conduction velocity (Križ, J. (885) 32)

Intrinsic
Inhibitory circuits; Cell distribution; Immunocytochemistry; Extrinsic (Gómez-Urquijo, S.M. (862) 171)

Invertebrate
Galanin; 5-HT; Octopus; Optic lobe; Peduncle complex (Suzuki, H. (865) 168)

cGMP; cAMP; Hair cell; Vestibular; Equilibrium receptor (Tu, Y. (865) 211)

Nitric oxide; cAMP; Hair cell; Vestibular; Equilibrium receptor organ (Tu, Y. (880) 65)

Inward currents
Quisqualate; Neocortex; mGluRs; G-proteins (Chu, Z. (879) 88)

Inward rectification
Preoptic area; Firing; Afterhyperpolarization; Calcium current (Wagner, E.J. (879) 29)

Inward rectifier K^+ channels
Cerebral arteries; Nitric oxide; Osmolality (Golding, E.M. (880) 159

Inward rectifier K^+ currents
Delayed rectifier K^+ currents; Membrane potential; Müller cell; Glia (Pannicke, T. (862) 187)

(±)-1-(4-Iodo-2,5-dimethoxyphenyl)-2-aminopropane (DOI)
Intermittent cocaine; Sensitization; Dopamine; Nucleus accumbens; Ketanserin (Yan, Q.-S. (863) 254)

Ion channel
Electrogenesis; Plasticity (Waxman, S.G. (886) 5)

Locomotion; Networks; Modulation; Modeling; Behavior (Grillner, S. (886) 224)

Ion currents
Rat; Ischemia; Whole-cell patch-clamp (Bruehl, C. (884) 129)

Ionic change
Astrocyte; Calcium signaling; Injury (Paemeleire, K. (857) 235)

Ionizing radiation
Cerebellum; GM1; Motor activity; Neuroprotective agent; X-rays (Guelman, L.R. (858) 303)

Iontophoretic application
In vivo electrophysiology; Striatal neuron; Nicotine; Dopamine D2 receptor (Yu, H. (872) 223)

Ion-selective microelectrode
Hydrogen peroxide; Oxidative stress; Transmitter release; Ca^{2+}; Ascorbate (Avshalumov, M.V. (882) 86)

IPSC
Serotonin; GABAergic; Interneuron; Intracellular recording; Hallucinogen (Liu, R. (873) 34)

Asynchronous release; GABA; Cultured neurons; Hippocampus (Jensen, K. (880) 198)

IPSP/C
Schizophrenia; NMDA; AMPA; GABA; Hippocampus (Behr, J. (861) 160)

Iron
Scrapie; Oxidative stress; Neurodegeneration (Kim, N.-H. (884) 98)

Iron neurotoxicity
Microdialysis; Dopamine release; Nomifensine; 1-Methyl-4-phenylpyridinium; Striatum; Rat (Santiago, M. (858) 26)

Ischemia
Apoptosis; Bag-1; Brain; Rat (Hayashi, T. (852) 496)

IGF-1; Translocation; Apoptosis; Intracerebroventricular infusion; Brain (Guan, J. (853) 163

Glutathione; 8 ohdG; Oxidative stress; HSP (Baek, S.-H. (856) 28)

Flupirtine; Retinal ganglion cell; Neuroprotection; Excitotoxicity (Nash, M.S. (856) 236)

Neuronal cell death; Apoptosis; Bcl-2; Phosphorylation; CPP32 (Yokote, H. (857) 78)

Glycogen synthase kinase 3β; Insulin-like growth factor-1; MCAO; TUNEL (Wang, J.M. (859) 381)

Albino rats; Pigmented rats; Retina; Electroretinogram; Immunohistochemistry (Safa, R. (862) 36)

Dialysis electrode; Real-time monitoring; Ferrocene; Glutamate release; Glutamate re-uptake; Reversed uptake; Normothermia; Hypothermia; In vivo (Asai, S. (864) 60)

Chloride cotransporter; Sound-triggered seizures; Diuretics (Reid, K.H. (864) 134)

Ca^{2+} overload; Carrier-mediated transport; Hypoxia; Microdialysis; Na^+ overload (Yahagi, N. (864) 157)

Brain slice; Hypoxia; Glucose metabolism; Free radical; Excitatory amino acids (Murata, T. (865) 259)

Mouse; Brain; Transgenic; Histology; Cerebrovascular anatomy (Wellons III, J.C. (868) 14)

Estradiol; Cortex; Neuroprotection; In vitro; Explants; Cell death (Wilson, M.E. (873) 235)

Embolic; GABA; Rat; Seizure; Tiagabine (Chen Xu, W. (874) 75)

Hippocampus; Infarct; Apoptosis; Inflammation; Free radical (Li, H. (877) 7)

Brain microvascular endothelial cell; Tight junction; Apoptosis; Cyanide; Electron microscopy (Zhang, J. (877) 134)

Marijuana; WIN 55 212-2; Hippocampus; Dendrite; Stress; MAP-2 (Lawston, J. (877) 407)

Hyperammonemia; Excitotoxicity; Ammonia toxicity; Glutamate (Kosenko, E. (880) 139)

CRF; Neuronal toxicity; Cortical neurons; NMDA; AMPA (Craighead, M.W. (881) 139)

Nitric oxide; N^{G}-nitro-L-arginine methyl ester; Retina; Rat (Ju, W.-K. (881) 231)

Cortical spreading depression; Mitochondrial NADH; Extracellular K^+; Brain oxygenation; Hypoxia (Sonn, J. (882) 212

Nerve growth factor; Neurotrophin; Spinal cord; Functional recovery (Bowes, M. (883) 178)

Rat; Whole-cell patch-clamp; Ion currents (Bruehl, C. (884) 129)

K^+ channels; Patch clamp; Hippocampus; Rat (Gong, L.-W. (884) 147)

Excitatory amino acid receptor; AMPA receptor; Calcium; Neurotoxicity; Seizure (Tanaka, H. (886) 190)

Brain slice; Neuroprotection; Nimodipine; Dimethyl sulfoxide (Greiner, C. (887) 316)

Ischemia-reperfusion
S-Adenosyl-L-methionine; Lipid peroxidation; Glutathione; Oxidative stress (Villalobos, M.A. (883) 31)

Ischemic cerebral damage
Neutrophil elastase; Edema; Elastase inhibitor (Shimakura, A. (858) 55)

Ischemic pain
Intracutaneous stimulus; Somatosensory evoked potentials; Auditory evoked potentials; Spontaneous EEG; Diffuse noxious inhibitory controls (Reinert, A. (862) 103)

Ischemic penumbra
Motor evoked potential; Synaptic transmission; Focal cerebral ischemia; Transcranial magnetic stimulation (Bolay, H. (873) 26)

Ischemic preconditioning
Cerebral hypoperfusion; Energy metabolism; Systemic hypotension (Plaschke, K. (858) 363)

Ischemic tolerance
Brain-derived neurotrophic factor; Cerebral ischemia; Cerebral infarction; Temporary focal ischemia; Rat (Yanamoto, H. (859) 240)

Extracellular signal-regulated kinase; c-Jun N-terminal protein kinase; Phosphorylation; Brain (Gu, Z. (860) 157)

Cerebral ischemia; Brain edema; Thrombin; Rat (Masada, T. (867) 173)

Ischemic tolerance induction
Global ischemia; Activator Protein 1; DNA binding activity; Gerbil (Kapinya, K. (872) 282)

Islands of Calleja
5-HT_6 receptors; Neuronal cilia; Immunocytochemistry; Subcellular localization (Brailov, I. (872) 271)

Islet amyloid polypeptide
Brain; Monoamine; Neuropeptide; Satiety; Body weight (Arnelo, U. (887) 391

Isoflurane anesthesia
fMRI; Rhesus monkey; Basal ganglia; Apomorphine (Zhang, Z. (852) 290)

Isoform
Na,K-ATPase; Neuronal cell; Development; Embryonic stem cells; Differentiation (Habiba, A. (875) 1)

Na^+–Ca^{2+} exchanger; Postnatal development (Sakaue, M. (881) 212)

Isolated muscle spindle
Ramp-and-hold stretch; Chlorobutanol; Calcium; Electrogenic Na/K pump (Fischer, M. (854) 106)

Impulse activity; External calcium concentration; Ramp-and-hold stretch; Stretch sensitivity; Adaptation (Fischer, M. (875) 78)

Isoprostaglandin
Pain; Hyperalgesia; Prostaglandin; Eicosanoid (Junger, H. (867) 255)

8-Isoprostane
Reactive oxygen species; Noise-induced hearing loss; Prostanoids (Ohinata, Y. (878) 163)

Isoproterenol
Locomotion; Electrophysiology; Motoneurone; Noradrenaline; Methoxamine; Clonidine (Sqalli-Houssaini, Y. (852) 100)

Isthmo-optic nucleus
Centrifugal visual system; Afferent synaptic terminals; Glutamate immunoreactivity; Pigeon; Electron microscopy (Miceli, D. (868) 128)

IVIg therapy
Astrocytes; Glial fibrillary acidic protein; Interleukin-6; Microglia; Neuropathic pain (Arruda, J.L. (879) 216)

I_1-imidazoline receptors
Arterial blood pressure; Cardiovascular regulation; Moxonidine; Hypertension; Rostral ventrolateral medulla; Wild type mice; α_{2a}-Adrenergic mice (Tolentino-Silva, F.P. (862) 26)

J

JAK-STAT pathway
Hypothalamus; gp130; Neuroendocrine; IL-6; CNTF; LIF (Strömberg, H. (853) 105)

Jaundice
Bilirubin; Glutamate; NMDA; Haem oxygenase; Carbon monoxide (Warr, O. (879) 13)

Jaw opening reflex
Oral pain; Tooth pulp; Formalin test; Rat (Pajot, J. (863) 289

Jet lag
Circadian clock; Aging; Melatonin; Agonist; Re-entrainment (Weibel, L. (880) 207)

Joint stiffness
Postural control; Undisturbed stance; Centre of gravity; Centre of pressure; Blindness (Rougier, P. (871) 165)

c-Jun N-terminal protein kinase
Extracellular signal-regulated kinase; Phosphorylation; Ischemic tolerance; Brain (Gu, Z. (860) 157)

JunB
Rat pineal; Okadaic acid; cAMP; cAMP response element binding protein (CREB); Arylalkylamine *N*-acetyltransferase; Inducible cAMP early repressor (ICER); Fos-related antigen-2 (Fra-2) (Spessert, R. (864) 270)

K

κ receptor
Mercaptoacetate; Lipoprivation; Feeding; Opioids; μ receptor; δ receptor; Antisense probes (Stein, J.A. (864) 240)

Kainate
Seizure; Epilepsy; Cerebral glucose metabolism; [^{14}C]2-Deoxyglucose; Neuronal damage (Bouilleret, V. (852) 255)

Adenosine; Inosine; Hypoxanthine; Xanthine; Microdialysis; Hippocampus; Epilepsy; Pentylenetetrazol; Bicuculline; Adenosine deaminase (Berman, R.F. (872) 44)

Kainate injection
Cholinergic neurotransmission; CNQX; Cyclothiazide; [^{3}H]Pirenzepine binding (Jin, S. (882) 128)

Kainate receptor
Rat; Neuropathic pain; Fentanyl; Excitatory amino acid (Ta, L.E. (858) 106)

Kainic acid
Neurodegeneration; Hippocampus; Superoxide; Cu,Zn-superoxide dismutase; Free radical; Astrocyte; Microglia (Kim, H.-C. (853) 215)

Seizure; DNA damage; EEG; Hippocampus; Rat (Henshall, D.C. (858) 290)

Glutamate receptors; Immunocytochemistry; CNQX (Andrade da Costa, B.L.d.S. (863) 132)

Excitotoxin; Fluoro-Jade; Black-Gold; Brain pathology (Hopkins, K.J. (864) 69)

Cycloxygenase; Lipoxygenase; Lipid peroxidation; Protein oxidation; Glutathione status;

Neuronal loss; Hippocampus (Kim, H.-C. (874) 15)

Fluoro-Jade B; Neuronal degeneration; Neuropathology (Schmued, L.C. (874) 123)

Dopamine; Substantia nigra; Behavior (Fan, X.-D. (877) 107)

Kainic acid lesion
Alzheimer's disease; Medial septum; Nucleus of basalis of Meynert; Apoptosis; Nerve growth factor (Oh, J.D. (853) 174)

Kallikrein
Brain; Nucleus; Immunohistochemistry; Rat (Iwadate, H. (863) 87)

Kappa agonist
Anxiety; Memory; Opioid; Infralimbic cortex; Elevated plus-maze; Immediate working memory; Y-maze (Wall, P.M. (856) 259)

Kappa opioid receptor
Des-tyrosine[1] dynorphin A-(2–13); Nor-binaltorphimine dihydrochloride; Alternation behavior; Y-maze; Non-opioid; Cholinergic neuronal system (Hiramatsu, M. (859) 303)

RT-PCR; Mu opioid receptor; 'Binge' cocaine; Nucleus accumbens (Rosin, Å. (872) 102)

NF-κB
Valproic acid; TNF-α; Interleukin-6 (Ichiyama, T. (857) 246)

Ganglion cell; Retina; Degeneration; Axotomy (Choi, J.-S. (883) 60)

68-kD Neurofilament protein
Spinal cord injury; bax/bcl-2; Calpain/calpastatin; Apoptosis; E-64-d (Ray, S.K. (867) 80)

Ketamine isomer
NMDA receptor antagonist; c-Fos; Psychotomimetic effect; Posterior cingulate and retrosplenial cortices (Nishizawa, N. (857) 188)

Ketanserin
Intermittent cocaine; Sensitization; Dopamine; Nucleus accumbens; (±)-1-(4-Iodo-2; 5-dimethoxyphenyl)-2-aminopropane (DOI) (Yan, Q.-S. (863) 254)

Type 1 cell; Cell culture; Hypoxia; 5-HT receptors (Zhang, M. (872) 199)

Morphine; Dizocilpine; NMDA receptor; 5-HT_{2A} receptors; Dependence; Tolerance (Ninan, I. (876) 215)

Ketoprofen
Rat; Morphine; Artificial ureteral calculosis; Pre-emptive analgesia; Visceral pain (Giamberardino, M.A. (878) 148

Kidney
L-DOPA; 3-*O*-methyl-L-DOPA; Aromatic L-amino acid decarboxylase; Brain; Liver (Soares-da-Silva, P. (863) 293)

Tau; Neurofibrillary tangles; Granulovacuolar degeneration; Heart; Liver; Spleen (Yasojima, K. (865) 116)

Kindling
Epilepsy; Status epilepticus; Temporal lobe (Potschka, H. (855) 252)

Hippocampus; Amygdala; Adenosine A_1 receptor; N^6-cyclohexyladenosine; 1,3-Dimethyl-8-cyclopentylxanthine (Mirnajafi-Zadeh, J. (858) 48)

Tissue plasminogen activator; tPA; Serine protease; Hippocampus; Epilepsy (Hoffman, K.B. (861) 178)

Amygdala; Seizures; Claustrum; Rat; mRNA expression (Sitcoske O'Shea, M. (873) 1)

Kinematics
Visual feedback; Parkinson's disease; Alzheimer's disease (Ghilardi, M.-F. (876) 112)

Kinetics
Choline; Alpha7; Nicotinic receptors; Hippocampus; Patch clamp (Mike, A. (882) 155)

KLBP
E-FABP; DA11; C-FABP; Fatty acid lipid binding; Neuronal migration and differentiation (Liu, Y. (852) 16)

Knock out mouse
D1 receptor; Cocaine; Amphetamine (Xu, M. (852) 198)

Amygdala; Hypothalamus; Seizure; Emotional behaviour (Stork, O. (865) 45)

DARPP-32; Operant conditioning; Reversal learning; Dopamine transmission (Heyser, C.J. (867) 122)

Interferon-γ; Tumor necrosis factor α; Lipopolysaccharide; Microglia; Free radical (Kong, G.-Y. (878) 105)

Blood–brain barrier; Brain edema; Microglia; Plasminogen activator; Urokinase (Kataoka, K. (887) 187)

Knockout
Transgenic mouse; Knock-in; MT-I and MT-II null astrocytes; Metallothionein; Methylmercury (Yao, C.P. (855) 32)

NPY; Fasting; Anxiety; Acoustic startle; Nociception (Bannon, A.W. (868) 79

Knock-in
Transgenic mouse; Knockout; MT-I and MT-II null astrocytes; Metallothionein; Methylmercury (Yao, C.P. (855) 32)

Knock-out
Olfactory marker protein; OMP; Olfactory receptor neurons; Conduction velocity; Axon diameter; Mouse; Gene targeting (Griff, E.R. (866) 227)

KOR-1
Antinociception; Analgesia; Improgan; Cimetidine; H_2-receptor; Histamine; Brain; MOR-1; DOR-1; Opioid receptor (Hough, L.B. (880) 102)

Kv1 channel
Basal ganglia; Parkinson's disease; Heteromultimeric channel; Immunohistochemistry (Chung, Y.H. (875) 164)

Kynurenic acid
Rat spinal cord; Aminooxyacetic acid; L-Glutamate; in vitro (Urbańska, E.M. (878) 210)

K^+ channel
Cyclic nucleotide; Cerebral circulation; Newborn; Hypoxia (Ben-Haim, G. (853) 330)

Newborn; Cerebral circulation; Opioid; Cyclic nucleotide (Ben-Haim, G. (884) 51)

Ischemia; Patch clamp; Hippocampus; Rat (Gong, L.-W. (884) 147)

Newborn; Cerebral circulation; Vasopressin; Brain injury (Salvucci, A. (887) 406)

κ_1 Opioid receptor
Feeding; Nucleus accumbens shell; μ Opioid receptor; μ_1 Opioid receptor; δ_1 Opioid receptor; δ_2 Opioid receptor (Ragnauth, A. (876) 76)

K_{ATP}
ATP-sensitive potassium channel; Sulfonylurea; GABA; Striatum; Microdialysis; Bicuculline; Glipizide; Nigrostriatal (Levin, B.E. (874) 158)

K_{ATP} channel
Hypoxia; Metabotropic glutamate receptor; G-protein; Cytoskeleton (Mironov, S.L. (853) 60)

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L-3,4-Dihydroxyphenylalanine
Aromatic L-amino-acid decarboxylase; L-5-Hydroxytryptophan; Reserpine; Budipine; Amantadine; Memantine; NMDA antagonism (Fisher, A. (868) 268

L-5-Hydroxytryptophan
Aromatic L-amino-acid decarboxylase; L-3,4-Dihydroxyphenylalanine; Reserpine; Budipine; Amantadine; Memantine; NMDA antagonism (Fisher, A. (868) 268)

L-Arginine
Huntington's disease; Nitric oxide; Peroxynitrite; Neurodegeneration; Cerebral blood flow; Diet (Deckel, A.W. (875) 187)

L-Buthionine-[*S,R*]-sulfoximine
Glutathione; Convulsion; Pentylenetetrazol; Mouse (Abe, K. (854) 235)

Parkinson's disease; Reaggregate culture; Tyrosine hydroxylase; DARPP 32; Glial fibrillary acidic protein (Nakamura, K. (873) 203)

L-[β-^{11}C]DOPA
Cocaine; GBR12909; [^{11}C]β-CFT; Positron emission tomography; Microdialysis; Monkey brain (Tsukada, H. (860) 141)

L-DOPA
Dopamine; Dopamine metabolism; Dihydroxyphenylacetaldehyde; DOPALD; Monoamine oxidase (Fornai, F. (861) 126)

3-*O*-methyl-L-DOPA; Aromatic L-amino acid decarboxylase; Brain; Liver; Kidney (Soares-da-Silva, P. (863) 293)

L-DOPS
Functional recovery; Norepinephrine; Sensorimotor cortex; Hemiplegia; Beam-walking performance; Cortex ablation (Kikuchi, K. (860) 130)

L-Glutamate
Rat spinal cord; Kynurenic acid; Aminooxyacetic acid; in vitro (Urbańska, E.M. (878) 210)

L-homocysteic acid
Neurotoxicity; Oxidative stress; Glutathione; Lipoic acid (Lockhart, B. (855) 292)

L-NMMA
FITC–dextran; FITC–albumin; Sodium fluorescein; Cerebral venule; Pial arteriole; Nitric oxide; Rhodamine 6G; Brain, rat (Mayhan, W.G. (855) 143)

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Acoustic information processing; Population response; Binding problem; Sensorimotor control; Initiation of movement; Auditory transmission; Pavlovian conditioned response (Zotova, E. (868) 66)

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Leukemia inhibitory factor
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α_1-Adrenoceptor; Afferent pathway; Efferent pathway; Spinal cord; Urinary bladder (Yoshiyama, M. (882) 36)

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Visceral neuraxis; Autonomic control; Sympathetic nervous system; Immediate–early gene expression; Spinal cord dorsal horn (Fitch, G.K. (861) 377)

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Losartan
Endogenous angiotensin II; Volume expansion (Badoer, E. (871) 333)

Nitric oxide; Vasopressin; Angiotensin II; Prostaglandin (Kadekaro, M. (877) 371)

Lower urinary tract
Muscarinic; Vesicoanal; Nociception; Bladder; Acetylcholine (Thor, K.B. (870) 126)

Low-affinity kainate receptors
Cortical neuron culture; Excitotoxicity; LY339434; NMDA receptors (Moldrich, R.X. (862) 270)

Low-density lipoprotein (LDL)
Fluvastatin; 1-Methyl-4-phenylpyridine (MPP^+); Copper-induced oxidation; Hydroxyl radical (Obata, T. (860) 166)

LP-BM5
Working memory; AIDS; Dementia; Animal model; HIV-1 (Lee, B. (856) 129)

LPBN
Deoxycorticosterone; NaCl intake; Water intake; 5HT (De Gobbi, J.I.F. (880) 131)

LTP
Neurogenesis; Dentate gyrus; Mossy fiber; Mossy fiber LTP; Precursor cell; Hippocampus (Derrick, B.E. (857) 300)

Brain injury; Fluid percussion; Hippocampus; Rat (Sanders, M.J. (861) 69)

Acetylcholine; Freely moving; Rat; Neocortex (Boyd, T.E. (881) 28)

Lumbosacral spinal cord
Female rat; Vaginocervical stimulation; Fos; Estrous cycle (Ghanima, A. (880) 109)

Lung deflation
Respiration; Nucleus tractus solitarii; Inspiratory neuron; Rapidly-adapting pulmonary stretch receptor (Ezure, K. (883) 22)

Lung-type prostaglandin F synthase
Dendrites; Endothelial cells; Spinal cord; Immunocytochemistry (Suzuki-Yamamoto, T. (877) 391)

Lupus
Autoimmunity; Shuttlebox; Passive learning; Inbred mice; BXSB; DBA; BW; NZB; Footshock (Baloght, S.A. (887) 484)

Luteal phase
Sleep deprivation; Circadian rhythm; Biological rhythm; Menstrual cycle; Adenosine (Wright Jr, K.P. (873) 310)

Luteinizing hormone
Area postrema; Hypoglycaemia; GnRH (Cates, P.S. (853) 151)

Gonadotropin-releasing hormone; Fos; Opioid

receptor; Naloxone; Puberty (He, D. (858) 129)

GABA turnover; Postcastration time course; Sex difference; Hypothalamus (Yoo, M.-J. (878) 1)

Luzindole
Melatonin; 5-HT_{2A} receptor; Anorexia; HPA axis; Hyperthermia (Raghavendra, V. (860) 112)

LY339434
Low-affinity kainate receptors; Cortical neuron culture; Excitotoxicity; NMDA receptors (Moldrich, R.X. (862) 270)

Lymnaea stagnalis
APGWamide; Neuropeptides; ESI–MS; HPLC; *Mytilus edulis* (Henry, J. (862) 162)

Octopamine; Snail; Pharmacology; Synaptic connections; Feeding system (Vehovszky, Á. (867) 188)

Lymphocyte
Leptin; Corticotropin-releasing hormone; Urocortin; Sympathetic nerve (Okamoto, S. (855) 192)

Death receptor; Alzheimer's disease; TR3; Apoptosis; Antibody (Newman, S.J. (857) 131)

Lysosome
Hair cell; Aminoglycoside; Ototoxicity; Chicken (Hashino, E. (887) 90)

M

μ Opioid receptor
Feeding; Nucleus accumbens shell; μ_1 Opioid receptor; δ_1 Opioid receptor; δ_2 Opioid receptor; κ_1 Opioid receptor (Ragnauth, A. (876) 76)

Feeding; Nucleus accumbens shell; δ_2 Opioid receptor; SCH23390; Raclopride; D_1 receptor; D_2 receptor; Dopamine (Ragnauth, A. (877) 65)

μ Receptor
Mercaptoacetate; Lipoprivation; Feeding; Opioids; δ receptor; κ receptor; Antisense probes (Stein, J.A. (864) 240)

Circadian rhythm; Phase shift; Entrainment; Non-photic; Morphine; Opioid; Fentanyl; Superior colliculus (Meijer, J.H. (868) 135)

m2 Subtype selectivity
Degenerative disease, Alzheimer's — neuropharmacology; Acetylcholine receptor, Muscarinic; Regional localization of a receptor; Tricyclic compound; Tomographic brain imaging (Cohen, V.I. (861) 305)

Macrophage
Intracerebral hemorrhage; Inflammation; Microglia; Intracellular adhesion molecule-1; Neutrophil (Gong, C. (871) 57)

Microglial response factor-1; Cerebral ischemia; Microglia (Kato, H. (882) 206)

Macrophage migration inhibitory factor
Hippocampal cell; Neocortical cell; Neuron; Glucocorticoid (Vedder, H. (869) 25)

Macular degeneration
Excitotoxicity; TPEN; Cycloheximide; DEVD; zVAD (Hyun, H.J. (869) 39)

Magnesium
Neuropathic pain; Hyperalgesia; MK-801 (Begon, S. (887) 436)

Magnetic field
Serotonin; 5-HT_{1B} receptor; Rat brain; Mood disorder (Massot, O. (858) 143)

Magnetic resonance
Brain edema; Hexachlorophene; Apparent diffusion coefficient (Kinoshita, Y. (873) 127)

Magnetic resonance imaging
Mild hypothermia; Rat; Stroke; Spreading depression (Yenari, M.A. (885) 208)

Magnetic resonance spectroscopy
Cushing's syndrome; Hypercortisolism; Cerebral metabolites; Choline (Khiat, A. (862) 301)

Magnetic source imaging
C-nociceptor; Sensitization; Neuropathic pain; Allodynia; Human (Baron, R. (871) 75)

Magnetic stimulation
Epilepsy; Hippocampus; Epileptiform activity; Transcranial magnetic stimulation (Dobson, J. (868) 386)

Magnetoencephalogram
Pain perception; Primary somatosensory cortex (SI); Subdural recording; Parallel processing; Human (Kanda, M. (853) 282)

Magnetoencephalography
Sleep; MEG; Human; Topography; Source localization (Simon, N.R. (860) 64)

Apparent motion; MT/V5; Asymmetry; Human visual system; Visual field (Naito, T. (865) 221)

Visual evoked potential; Check size; Pattern-reversal; Spatial frequency (Nakamura, M. (872) 77)

Primary somatosensory cortex; Median nerve; Oscillatory burst; 600 Hz wavelets; Lorazepam (Haueisen, J. (874) 10

Magnocellular neuron
Fever; Hypothalamus; Acute-phase response; IL-1β (Matsunaga, W. (858) 9)

Male
Serotonin transporter site; Quantitative autoradiography; Fetal alcohol exposure; Female; Central nervous system (Zafar, H. (856) 184)

Male sexual behavior
Impotent rat; Melatonin; Melatonin receptor; Serotonin; Serotonin receptor (Drago, F. (878) 98)

Malnutrition
Rat; Neonate; Cerebellum; Cyclin D1; Cip; Ink4 inhibitor; Neuron; Glia (Shambaugh III, G.E. (855) 11)

Malonate
Excitotoxicity; Free radical; Mitochondria; *N*-methyl-D-aspartate; Creatine; Nicotine (Malcon, C. (860) 195)

Man
Trigemino-hypoglossal–facial reflexes; Cutaneous and mucosal afferents; Hypoglossal–facial anastomosis; Synaptic plasticity (Tankéré, F. (864) 87)

Blink reflex; Noradrenergic system; Clonidine (Palmeri, A. (867) 210)

Manganese
Dopamine; Apoptosis; Glutathione (Stokes, A.H. (858) 1)

PC12 cell; Integrin; Neurite outgrowth; Vitronectin receptor (Lein, P. (885) 220)

Manganese superoxide dismutase
Apoptosis; Caspase; Cerebral ischemia; Cytochrome *c*; Poly(ADP–ribose) polymerase (Guégan, C. (856) 93)

Methamphetamine; Oxidative stress; Striatum; Dopamine; Transgenic mouse (Maragos, W.F. (878) 218)

MAO
Serotonin; Dental pulp; Human (Inoue, K. (853) 374)

MAO inhibitor
Serotonin; Locomotion; Hippocampus; Prefrontal cortex (Takahashi, H. (869) 194)

MAP kinase
Tissue culture; Raphe; Neuronal–glial interaction; BDNF (Nishi, M. (868) 113)

MAP1b
MAP2; Protein phosphatase; Microtubule-binding; Protein phosphorylation; Phosphatase inhibitor (Gong, C.-X. (853) 299

MAP2
MAP1b; Protein phosphatase; Microtubule-binding; Protein phosphorylation; Phosphatase inhibitor (Gong, C.-X. (853) 299)

Mapacalcine
Calcium channel; Toxin; Brain; Glial cell; Choroid plexus; Neuron; Binding; Autoradiography; Receptor; Mapping; Synaptic membrane (Mourre, C. (858) 136)

MAPK
c-fos; CREB; Lipopolysaccharide; Cycloheximide; C6 rat glioma cells (Kim, Y.-H. (872) 227)

Hyperalgesia; NGF; Carrageenan; Mouse; Inflammation (Sammons, M.J. (876) 48)

Mapping
Calcium channel; Toxin; Brain; Glial cell; Choroid plexus; Neuron; Mapacalcine; Binding; Autoradiography; Receptor; Synaptic membrane (Mourre, C. (858) 136)

Brain-stimulation reward; Lateral preoptic area; Trade-off functions; Moveable electrode; Medial forebrain bundle (Bushnik, T. (881) 103)

MAP-2
Marijuana; WIN 55 212-2; Hippocampus; Dendrite; Stress; Ischemia (Lawston, J. (877) 407)

Marijuana
WIN 55 212-2; Hippocampus; Dendrite; Stress; Ischemia; MAP-2 (Lawston, J. (877) 407)

Marine toxins
Neurotoxin; Potassium channel; *Helix aspersa*; *Bunodosoma granulifera*; BgK (Garateix, A. (864) 312)

Marsupial
Barrel; Visual cortex; Histochemistry; Primate; Rat (Franca, J.G. (864) 163)

Masseter muscle
Experimental pain; Transcranial magnetic stimulation; Trigeminal physiology (Romaniello, A. (882) 120)

Mast cell
Histamine; Feeding; Compound 48/80; Sodium cromoglycate; Chick (Kawakami, S.-i. (857) 313)

Thiamine; Histamine; Basophils; Thalamus; Hippocampus; Vascular changes (McRee, R.C. (858) 227)

FITC-dextran; Cerebral venule; Monoclonal antibody; CD18; Anti-CD18; WT.3; Brain; Compound 48/80 (Mayhan, W.G. (869) 112

Mastication
Head movement; Neck muscle (Igarashi, N. (871) 151)

Maternal
Paraventricular nucleus; Neuronal nitric oxide synthase; Lactation; Citrulline; Behavior; Maternal aggression (Gammie, S.C. (870) 80)

Maternal aggression
Paraventricular nucleus; Neuronal nitric oxide synthase; Lactation; Citrulline; Maternal; Behavior (Gammie, S.C. (870) 80)

Maternal behavior
c-*fos*–2DG joint analysis; Vomeronasal system; Parturition; Sensitization; Disinhibition (Komisaruk, B.R. (859) 262)

Maternal deprivation
Rat; Serotonin receptor; Brainstem; Hippocampus; Gene expression (Vázquez, D.M. (855) 76)

Mathematical model
Ascorbic acid; Transport; Brain cell (Korcok, J. (881) 144)

Matrix metalloproteinase
TNF-α; TNF receptor I; Axonal injury; Wallerian degeneration (Shubayev, V.I. (855) 83)

CNS; Development; Extracellular matrix; MMP (Jaworski, D.M. (860) 174)

Mature rat brain
Voltage-gated calcium channel (VGCC); N-type channel; α_{1B} subunit; Immunohistochemistry (Chung, Y.H. (866) 274)

Y-maze
Anxiety; Memory; Opioid; Infralimbic cortex; Kappa agonist; Elevated plus-maze; Immediate working memory (Wall, P.M. (856) 259)

Des-tyrosine^1 dynorphin A-(2–13); Nor-binaltorphimine dihydrochloride; Alternation behavior; Kappa opioid receptor; Non-opioid; Cholinergic neuronal system (Hiramatsu, M. (859) 303)

T-588
Wobbler mouse; Motoneuron disease; LDH; ChAT; cAMP (Ikeda, K. (858) 84)

T-maze
Aversive conditioning; Hippocampus; Memory; Mouse; Retention (Farr, S.A. (872) 242)

Maze learning
New Zealand Black mouse; Neocortical ectopia; Lashley maze (Hyde, L.A. (887) 482)

Mazindol binding
Retina; Aging; Dopamine; Tyrosine hydroxylase; Choline acetyltransferase; Hemicholinium-3 binding; GM1 ganglioside. (Goettl, V.M. (877) 1

MCAO
Glycogen synthase kinase 3β; Insulin-like growth factor-1; Ischemia; TUNEL (Wang, J.M. (859) 381)

MCP-1
Chemokine; Microglia; Thalamus; Retrograde neuronal degeneration (Muessel, M.J. (870) 211)

MC_4 receptor antagonist, HS014
Feeding; Melanocortin receptor; Amygdala; Nucleus accumbens; Paraventricular nucleus; Hypothalamus; Rat (Kask, A. (887) 460)

MDL28170
H_2O_2; A23187; bax/bcl-2 ratio; Calpain; PCD in neuronal cell (Ray, S.K. (852) 326)

MDMA
SSRI; Anorectic agent; Amphetamine; Neurotoxicity (Kalia, M. (858) 92)

***mdr1a*(−/−) mice**
P-glycoprotein; Blood–inner ear barrier; Adriamycin; Vinblastine; Ototoxicity (Zhang, Z.-J. (852) 116)

Mecamylamine
Muscarinic; Nicotinic; Cholinergic receptor; Spinal cord; Dorsal horn; Muscle contraction; Blood pressure; Atropine; Bethanechol (Hand, G.A. (877) 382)

Mechanical hyperalgesia
Aging; Pain; Hypoalgesia; Allodynia; GM1 ganglioside (Goettl, V.M. (858) 380)

Mechanical sensitivity
Lingual nerve; Nerve injury; Spontaneous activity; Dysaesthesia; Paraesthesia (Yates, J.M. (874) 37)

Mechanoreception
Dissociated neurons; Facial nerve; Retrograde labelling; Taste; Whole-cell recording (King, M.S. (866) 237)

Mechanoreceptor
Human; Skin; Microneurography (Olausson, H. (866) 178)

Mechanosensation; DEG/ENaC; Meissner corpuscle; Merkel cell–neurite complex; Pacinian corpuscle (Drummond, H.A. (884) 1)

Mechanosensation
Mechanoreceptor; DEG/ENaC; Meissner corpuscle; Merkel cell–neurite complex; Pacinian corpuscle (Drummond, H.A. (884) 1)

Mechanosensitive neuron
Patch clamp; Tactile neuron; Somatosensory neuron; Dorsal root ganglion (Takahashi, A. (869) 225

Mechanostimulation
Dorsal root ganglia; Capsaicin; Fedotozine; κ-Opioid receptor (Gschossmann, J.M. (856) 101)

Medetomidine
α_2-Adrenoceptor; Pineal gland; Melatonin (Mustanoja, S.M. (887) 174)

Medial agranular frontal cortex
Locus coeruleus; Rat; EEG; Arousal; Auditory stimulation (Shinba, T. (887) 293)

Medial forebrain bundle
Brain-stimulation reward; Mapping; Lateral preoptic area; Trade-off functions; Moveable electrode (Bushnik, T. (881) 103)

Medial geniculate body
Inferior colliculus; Biocytin; Parasagittal slice (Kuwabara, N. (878) 79)

Medial olivocochlear bundle
Otoacoustic emission; Middle-ear impedance; Stapedius reflex; Middle-ear pressure (Büki, B. (852) 140)

Medial perforant path
Field potentials; Population spikes; Gating; Angular bundle; Hippocampus; Paired-pulse facilitation; Paired-pulse depression; Presynaptic inhibition; Postsynaptic inhibition; Multichannel recording (Canning, K.J. (863) 271)

Medial prefrontal cortex
Footshock; Interleukin-1β; Nitric oxide; Norepinephrine; Paraventricular nucleus region (Ishizuka, Y. (862) 17)

3,4-Dihydroxyphenylalanine; 5-Hydroxytryptophan; Intracranial self-stimulation; Nucleus accumbens; Striatum (Nakahara, D. (864) 124)

Dopamine; Corticosterone; Conditioned fear; Stress (Morrow, B.A. (864) 146)

D1 dopamine receptor; Glutamate; α-Aminobutyric acid; Microdialysis (Abekawa, T. (867) 250)

Chronic-intermittent hypoxia; Rat; c-*fos*; Insular cortex (Sica, A.L. (870) 204)

$GABA_A$ receptor; $GABA_B$ receptor; Nitric oxide; Footshock (Ishizuka, Y. (872) 266)

Central nucleus of the amygdala; Periaqueductal gray; Hypothalamus; Neuroanatomical tracer; Emotional stress (Paredes, J. (887) 157)

Medial preoptic area
Epilepsy; GnRH pulse generator; Hypothalamus; Puberty (Illig, A.M. (885) 192

Medial preoptic nucleus
Prolactin; Feeding; Paraventricular nucleus; Ventromedial nucleus; Rat (Sauvé, D. (868) 306)

Medial septum
Alzheimer's disease; Kainic acid lesion; Nucleus of basalis of Meynert; Apoptosis; Nerve growth factor (Oh, J.D. (853) 174)

Medial septum complex
Hippocampus; Dentate gyrus; Evoked potential; EEG; Unit; Modulation (Carre, G.P. (861) 16)

Medial thalamus
Parafascicularis; Nociception; Vocalization; Morphine; Methylnaloxonium (Harte, S.E. (874) 78)

Median eminence
Corticotropin releasing hormone; Neuropeptide Y; Paraventricular nucleus; Arcuate nucleus; NPY Y1 receptor (Li, C. (854) 122)

Glutamate receptor; Immunohistochemistry; Tanycyte; Astrocyte; Rats (Kawakami, S.-i. (858) 198)

Estrogen; Prolactin; Pituitary gland; Arcuate nucleus; Periventricular nucleus (DeMaria, J.E. (879) 139)

Median nerve
Magnetoencephalography (MEG); Primary somatosensory cortex; Oscillatory burst; 600 Hz wavelets; Lorazepam (Haueisen, J. (874) 10)

Median preoptic nucleus
AV3V; Microdialysis; Natriuresis (Bealer, S.L. (864) 291)

Paraventricular nucleus; Renal sympathetic nerve activity; Central hypertonic saline (Yasuda, Y. (867) 107)

Median raphe nucleus
Serotonin; $5\text{-}HT_{5A}$ receptor; Circadian rhythm; Suprachiasmatic nucleus; Intergeniculate leaflet; Dorsal raphe nucleus; Immunohistochemistry (Duncan, M.J. (869) 178)

Medulla
Electrophysiology; Respiration; Raphe; Autonomic; Membrane potential (Wang, W. (860) 119)

Neuropathy; Sensory nervous system (Schmidt, R.E. (876) 88)

Respiration; Chemosensitivity; Pons; A5 neurones; Locus coeruleus (Ito, Y. (887) 418)

Medullary nuclei
Autonomic nervous system; Pontine nuclei; In vitro autoradiography; Saturation binding; Up- and down-regulation (Snell, B.J. (877) 160

MEG
Sleep; Magnetoencephalography; Human; Topography; Source localization (Simon, N.R. (860) 64)

Meissner corpuscle
Mechanoreceptor; Mechanosensation; DEG/ENaC; Merkel cell–neurite complex; Pacinian corpuscle (Drummond, H.A. (884) 1)

Melanocortin
Spinal cord injury; Methylprednisolone; αMSH; Combination therapy; Melanotropin (Lankhorst, A.J. (859) 334)

Opioids; NPY; Energy regulation (Kim, E.-M. (862) 11)

Anorectic; Leptin; Intracerebroventricular; Food intake (Edwards, C.M.B. (866) 128)

Melanocortin receptor
Obesity; OLETF rats; MSH (Lindblom, J. (852) 180)

Hypothalamus; Appetite; Intracerebroventricular; Melanocyte stimulating hormone (Abbott, C.R. (869) 203)

Feeding; MC_4 receptor antagonist, HS014; Amygdala; Nucleus accumbens; Paraventricular nucleus; Hypothalamus; Rat (Kask, A. (887) 460)

Melanocyte stimulating hormone
Melanocortin receptors; Hypothalamus; Appetite; Intracerebroventricular (Abbott, C.R. (869) 203)

Melanotropin
Spinal cord injury; Melanocortin; Methylprednisolone; αMSH; Combination therapy (Lankhorst, A.J. (859) 334)

Melatonin
Suprachiasmatic nuclei; Cyclic AMP; Protein kinase A; Circadian rhythm (Ferreyra, G.A. (858) 33)

Suprachiasmatic nucleus; Pineal; Circadian rhythm; Retinohypothalamic tract; $5\text{-}HT_{1D}$ receptor (Rea, M.A. (858) 424)

Luzindole; $5\text{-}HT_{2A}$ receptor; Anorexia; HPA axis; Hyperthermia (Raghavendra, V. (860) 112)

Nitric oxide; Hypoglossal nucleus; Peripheral nerve injury; Histochemistry; Immunohistochemistry (Chang, H.-M. (873) 243)

Serotonin; 5,7-dihydroxytryptamine; SCN; Entrainment; Rat (Slotten, H.A. (876) 10)

Aging; Locomotor activity; Polymerase chain reaction (Asai, M. (876) 220)

Male sexual behavior; Impotent rat; Melatonin

receptor; Serotonin; Serotonin receptor (Drago, F. (878) 98)

Circadian clock; Aging; Jet lag; Agonist; Re-entrainment (Weibel, L. (880) 207)

Glycine receptors; Cultured spinal neurons; Whole-cell recordings; Noncompetitive inhibition (Wu, F.-S. (881) 208)

Circadian rhythm; *Period* homologue; Pinealectomy; Suprachiasmatic nucleus; Peripheral tissues (Oishi, K. (885) 298)

α_2-Adrenoceptor; Pineal gland; Medetomidine (Mustanoja, S.M. (887) 174)

Melatonin receptor
Male sexual behavior; Impotent rat; Melatonin; Serotonin; Serotonin receptor (Drago, F. (878) 98)

Memantine
Aromatic L-amino-acid decarboxylase; L-3,4-Dihydroxyphenylalanine; L-5-Hydroxytryptophan; Reserpine; Budipine; Amantadine; NMDA antagonism (Fisher, A. (868) 268)

Membrane potential
Electrophysiology; Respiration; Raphe; Medulla; Autonomic (Wang, W. (860) 119)

Delayed rectifier K^+ currents; Inward rectifier K^+ currents; Müller cell; Glia (Pannicke, T. (862) 187)

Acetylcholine; Action potential; Carotid body; Petrosal ganglion; Primary sensory neuron (Varas, R. (882) 201)

Membrane transport
Glutathione; Sodium-dependence; Domain specificity (Kannan, R. (852) 374)

Memory
Neurosteroid; Dose–response; Hippocampus; In vivo microdialysis; Rat (Darnaudéry, M. (852) 173)

ATP diphosphohydrolase; Apyrase; 5′-nucleotidase; Inhibitory avoidance; Long-term potentiation (Bonan, C.D. (854) 253)

Brain aging; *N*-Acetylcysteine; Mitochondria; Oxidative damage; Thiolic antioxidants (Martínez, M. (855) 100)

Androgen; Adrenalectomy; Hippocampus; Cell death; Non-genomic (Frye, C.A. (855) 166)

Anxiety; Opioid; Infralimbic cortex; Kappa agonist; Elevated plus-maze; Immediate working memory; Y-maze (Wall, P.M. (856) 259)

Down Syndrome; Ts65Dn mouse; Temporal cortex; Synapses; Morphometry (Kurt, M.A. (858) 191

Vesicular zinc; Zinc deprivation; Learning; Hippocampus (Takeda, A. (859) 352)

GAP-43; Inbred strain; C57BL/6; DBA/2; Complex learning; Contextual conditioning; Hippocampus (Young, E.A. (860) 95)

Synaptic plasticity; Hippocampus; Limbic system; Rat (Jas, J. (861) 186)

Chick; Protein synthesis; Opioid receptor (Freeman, F.M. (864) 230)

Aversive conditioning; Female; Acetylcholine; Glutamate; Hippocampus; Mice; Ovariectomy; Retention (Farr, S.A. (864) 263)

Acetylcholine; Norepinephrine; 6-Hydroxydopamine; 192 IgG-saporin (Pappas, B.A. (867) 90)

Conditioned taste aversion; Amygdala; Glutamate receptor (Yasoshima, Y. (869) 15)

Synaptic plasticity; Environmental enrichment; NMDA receptor; Long-term potentiation (Foster, T.C. (871) 39)

Aversive conditioning; T-maze; Hippocampus; Mouse; Retention (Farr, S.A. (872) 242)

Development; Heavy metal; Learning; Neurotoxicity; Synaptic plasticity (Zaiser, A.E. (876) 201)

β-Amyloid protein; Apoptosis; Exendin (5–39); Glucagon-like peptide-1; Hippocampus (Oka, J.-I. (878) 194)

DFP; Organophosphate; Acetylcholinesterase; Cholinergic receptor; Nicotine; Pyridostigmine bromide; Spatial learning (Stone, J.D. (882) 9)

Stress; Homeostasis; Allostasis; Immune function; Adaptive plasticity; Hippocampus; Dendrite; Neurotransmitter; Glucocorticoid; Adrenalectomy; Adrenal steroid; Learning; Cognitive function; Psychiatric disorder (McEwen, B.S. (886) 172)

Memory consolidation
Slow-wave sleep; Spindle oscillation; Spatiotemporal synchrony; Synaptic plasticity; Computational model; Rapid eye movement sleep (Sejnowski, T.J. (886) 208)

Memory enhancing agent
FK960; Sustained facilitation of neurotransmission; Hippocampus (Matsuyama, S. (857) 317)

Memory extinction
Somatostatin; Short-term memory; Long-term memory; Passive avoidance test; cAMP (Sánchez-Alavez, M. (858) 78

Memory for controlling locomotion
Odorant-evoked oscillation; *Helix* pedal ganglion; Power spectra; Frequency–amplitude plot (Schütt, A. (879) 73)

Memory formation
Protein kinase C; Inhibitory avoidance training; Rat hippocampus (Paratcha, G. (855) 199)

Methylmercury; Intrauterine neurotoxicity; Fetal-type Minamata disease (Kakita, A. (877) 322)

Memory modulation
Emotionally motivated learning; Glutamatergic system; Nociception (Bianchin, M.M. (852) 436)

Memory retention
Long-term potentiation; Conditioned taste aversion; Insular cortex; Basolateral amygdaloid nucleus (Escobar, M.L. (852) 208)

Meningitis
Hypothermia; Intracranial pressure; Cerebral perfusion pressure; Inflammation; Cleaved Tau protein (Irazuzta, J.E. (881) 88)

Menstrual cycle
Sleep deprivation; Circadian rhythm; Biological rhythm; Luteal phase; Adenosine (Wright Jr, K.P. (873) 310)

MEP
TMS; Cortical excitability; Autonomic system; Skin test (Filippi, M.M. (881) 159)

Mercaptoacetate
Lipoprivation; Feeding; Opioids; μ receptor; δ receptor; κ receptor; Antisense probes (Stein, J.A. (864) 240)

Merkel cell–neurite complex
Mechanoreceptor; Mechanosensation; DEG/ENaC; Meissner corpuscle; Pacinian corpuscle (Drummond, H.A. (884) 1)

Mesencephalic trigeminal tract nucleus
Calcitonin gene-related peptide; Dorsal root ganglion; Immunohistochemistry; Osteopontin; Parvalbumin; Trigeminal ganglion (Ichikawa, H. (863) 276)

Mesoamygdaloid dopamine system
Fear-potentiated startle; Ventral tegmental area, Methylscopolamine; Acetylcholine; Muscarinic receptors; Laterodorsal and pedunculopontine tegmental nuclei (Greba, Q. (870) 135)

Mesolimbic
Nucleus accumbens; Shell; Core; Morphine; Opiate; Opioid; Striatum; Dopamine; Naloxone; Agonist; Antagonist; Hyperphagia; Palatability; Appetite; Food intake; Hedonic; Reward; Pleasure; Motivation; Addiction; Genes (fos); Transcription factors (Peciña, S. (863) 71

Dopamine; GABA; Serotonin; Atypical antipsychotic (Doherty, M.D. (864) 176)

Mesolimbic DA system
RO 60-0175; Microdialysis; Electrophysiology; 5-HT_{2C} receptors; Serotonin (Di Matteo, V. (865) 85)

Metabolic stimuli
CRH-41; ACTH; Adrenalectomy; Neural stimuli (Weidenfeld, J. (877) 73)

Metabolism
Rat brain; Human brain; Cytochrome *P*-450; Psychotropic drug; Microsome (Voirol, P. (855) 235)

Stereotypy; Limbic system; Opiates; Nucleus accumbens; Drug cues (Kraus, M.A. (865) 194)

Glucocorticoids; Stress; Hippocampus; Selective Vulnerability (Yusim, A. (870) 109)

Metabolite
Arginine^8-vasopressin; C-terminal fragment; Calcium; Inositol(1,4,5)-trisphosphate (Nakayama, Y. (858) 416)

Metabotropic glutamate
$mGluR_5$; NMDA; Thalamus; Nociception; Sensory transmission; Spinal cord (Bordi, F. (871) 223)

Metabotropic glutamate receptor
K_{ATP} channel; Hypoxia; G-protein; Cytoskeleton (Mironov, S.L. (853) 60)

(1*S*,3*R*)ACPD; DHPG; Oxygen–glucose deprivation; Apoptosis; Neuroprotection (Kalda, A. (853) 370)

Thalamus; In situ hybridisation (Neto, F.L. (854) 93)

Calcium binding protein; Colocalization; Excitotoxicity; GABA; GluR1; Somatostatin; Tyramide signal amplification (Stinehelfer, S. (861) 37)

Signal transduction; Dimerization (Copani, A. (867) 165)

Ca^{2+} channel; Inactivation; Hypoxia; G-protein; Ryanodine receptor (Mironov, S.L. (869) 166)

Visual cortex; Transmitter release; EPSP; Rat (Flavin, H.J. (873) 212)

GABA; Primary afferent; Ultrastructure; Spinal cord; Rat (Tao, Y.-X. (875) 138)

[^{3}H]QA binding; Group I agonists; GTP; Scatchard analysis (Hinoi, E. (881) 199)

Dopamine; 5-HT; Prefrontal cortex; Nucleus accumbens; Striatum; Turnover (Cartmell, J. (887) 378)

Metabotropic glutamate receptors
Gerbil; Global ischemia; Hippocampus; Immunohistochemistry; Preconditioning (Sommer, C. (872) 172)

Metabotropic receptor
$GABA_B$ receptor; Heteromeric; G protein-coupled receptor; Baclofen; GABA (Clark, J.A. (860) 41)

Metallothionein
Transgenic mouse; Knock-in; Knockout; MT-I and MT-II null astrocytes; Methylmercury (Yao, C.P. (855) 32)

Metallothionein-III
Growth inhibitory factor (GIF); Glial cell; Dopamine; Dopamine receptor; Antioxidant (Sogawa, C.A. (853) 310)

Methadone
Morphine; Calcium channel current; Neuroblastoma cell (Yang, J.C. (870) 199)

Methamphetamine
Peroxynitrite; Selenium; Caudate nucleus; Neurotoxicity; Oxidative stress (Imam, S.Z. (855) 186)

Dietary selenium; Substantia nigra; Dopamine; Tyrosine hydroxylase; Neurotoxicity (Kim, H.-C. (862) 247)

Norepinephrine; GABA; Reactive oxygen species; Transporters (Haughey, H.M. (863) 59)

Dopamine; Serotonin; Neurotoxicity; Rats; Caudate-putamen; Tyrosine hydroxylase; Glial fibrillary acid protein (Cappon, G.D. (863) 106)

Neurotoxicity; Neurodegeneration; PET; Neuronal plasticity; Parkinson's disease (Harvey, D.C. (871) 259)

Oxidative stress; Striatum; Dopamine; Manganese superoxide dismutase; Transgenic mouse (Maragos, W.F. (878) 218)

Methodology
PS deprivation; Modified multiple platform method; Polysomnography; Sleep rebound; Rat (Suchecki, D. (875) 14)

Methoxamine
Locomotion; Electrophysiology; Motoneurone; Noradrenaline; Clonidine; Isoproterenol (Sqalli-Houssaini, Y. (852) 100)

18-Methoxycoronaridine (18-MC)
Morphine; Sensitization; Locomotor activity; Dopamine; Drug addiction (Szumlinski, K.K. (864) 13)

Cocaine; Sensitization; Locomotor activity; Dopamine; Drug addiction (Szumlinski, K.K. (871) 245)

3-Methoxynaltrexone
Naloxonazine; β-Funaltrexamine; Endomorphin-1; Endomorphin-2 (Sakurada, S. (881) 1)

Methylenedioxymethamphetamine (MDMA)
Adenylyl cyclase; Aging brain; Dopamine; Serotonin (5-HT) (Slotkin, T.A. (879) 163)

Methyllycaconitine
Nicotinic acetylcholine receptor; Nicotine; Epibatidine; γ-Aminobutyric acid receptors; Muscimol; Long-term potentiation; Hippocampus (Fujii, S. (863) 259)

Methylmercury
Transgenic mouse; Knock-in; Knockout; MT-I and MT-II null astrocytes; Metallothionein (Yao, C.P. (855) 32)

Intrauterine neurotoxicity; Fetal-type Minamata disease; Developing brain (Kakita, A. (859) 233)

Primary cultured rat microglia; Apoptosis; Caspase; Endosomal/lysosomal system (Nishioku, T. (871) 160)

Intrauterine neurotoxicity; Fetal-type Minamata disease; Memory formation (Kakita, A. (877) 322)

Methylnaloxonium
Bed nucleus of the stria terminalis; Nucleus accumbens; Self-administration; Dependence; Heroin (Walker, J.R. (854) 85)

Medial thalamus; Parafascicularis; Nociception; Vocalization; Morphine (Harte, S.E. (874) 78)

Methylphenidate
Ritalin; Motor activity; Behavioral sensitization; Circadian; Psychomotor stimulants (Gaytan, O. (864) 24)

Methylprednisolone
Spinal cord injury; Melanocortin; αMSH; Combination therapy; Melanotropin (Lankhorst, A.J. (859) 334)

Methylscopolamine
Fear-potentiated startle; Acetylcholine; Muscarinic receptors; Laterodorsal and pedunculopontine tegmental nuclei; Mesoamygdaloid dopamine system (Greba, Q. (870) 135)

Lateral parabrachial nucleus; Taste aversion learning; Forebrain regulation; Visceral processing (Cubero, I. (871) 113)

1-Methyl-4-phenylpyridine (MPP^+)
Fluvastatin; Low-density lipoprotein (LDL); Copper-induced oxidation; Hydroxyl radical (Obata, T. (860) 166

1-Methyl-4-phenylpyridinium
Microdialysis; Dopamine release; Iron neurotoxicity; Nomifensine; Striatum; Rat (Santiago, M. (858) 26)

1-Methyl-4-phenylpyridinium ion (MPP^+)
Hydroxyl radical; Depolarization; Parkinson's disease; Dopamine; Microdialysis (Obata, T. (852) 488)

1-Methyl-4-phenylpyridinium (MPP^+)
Salsolinol; Neurotoxicity; Parkinson's disease; Energy metabolism (Storch, A. (855) 67)

Methyl-atropine
Baroreflex; Excitatory amino acid receptor; Heart rate; Arterial pressure; Parasympathetic tone; AP-5 (Canesin, R.O. (852) 68)

***N*-Methyl-*N*-nitrosourea**
Cerebral infarction; Apoptosis; Azoxymethane; p53; p21 (Park, S.-W. (855) 298)

***N*-Methyl-D-aspartate**
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Spermine; Anoxia; Hippocampal slice; Field potential; Polyamine (Ferchmin, P.A. (859) 273)

Excitotoxicity; Free radical; Mitochondria; Malonate; Creatine; Nicotine (Malcon, C. (860) 195)

Critical time window; Gacyclidine; Contusive spinal cord injury; Secondary injury; Neurochemical cascade (Gaviria, M. (874) 200)

Brainstem; Convulsion; Epilepsy; Audiogenic seizures; Rat (Ishimoto, T. (881) 152)

Glutamate; Retina; Flat mount; Retinal ganglion cell; Cell death; Brain-derived neurotrophic factor (Kido, N. (884) 59)

Neuron; Apoptosis; Necrosis; Staurosporine; Caspase (Thomas, C.E. (884) 163)

***N*-Methyl-D-aspartate receptor**
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Glycine-binding site; SM-18400; Spontaneously hypertensive rat; Bilateral carotid artery occlusion; Brain edema (Ohtani, K.-i. (871) 311)

***N*-Methyl-D-aspartate receptor 1**
Postischemic hypothermia; Long term potentiation; Hippocampus; Immunohistochemistry; Gerbil (Miyamoto, O. (873) 168

3-*O*-Methyl-L-DOPA
L-DOPA; Aromatic L-amino acid decarboxylase; Brain; Liver; Kidney (Soares-da-Silva, P. (863) 293)

Metric-space
Spike time; Transinformation; Sensory processing; V1 Neuron; Firing rate; Exchange resampling; Interspike interval; Poisson (Victor, J.D. (886) 33)

Met-enk
Synovial cells; Ankle; Mycobacteria; Arthritis (Elhassan, A.M. (879) 23)

Met-enkephalin
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mGluR
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Quisqualate; Inward currents; Neocortex; G-proteins (Chu, Z. (879) 88)

$mGluR_8$
Metabotropic glutamate; NMDA; Thalamus; Nociception; Sensory transmission; Spinal cord (Bordi, F. (871) 223)

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Non-spatial learning; Spatial learning; Radial-arm maze; Ectopia; Sex difference (Hyde, L.A. (863) 151)

Aversive conditioning; Female; Acetylcholine; Glutamate; Hippocampus; Memory; Ovariectomy; Retention (Farr, S.A. (864) 263)

Ethanol; U-99194A; Conditioned place preference; Swiss–Webster (Boyce, J.M. (880) 202)

Micellar electrokinetic chromatography
Microdialysis; Electric stimulation; Prefrontal cortex; Nucleus accumbens; GABA–glutamate–dopamine interaction (Tucci, S. (887) 259)

Microanalysis
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Microdialysis
Hydroxyl radical; Depolarization; Parkinson's disease; 1-Methyl-4-phenylpyridinium ion (MPP^+); Dopamine (Obata, T. (852) 488

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Excitotoxicity; Glutamate; Hydroxyl radical; Ensaculin; Neuroprotection (Teismann, P. (857) 165)

Dopamine release; Iron neurotoxicity; Nomifensine; 1-Methyl-4-phenylpyridinium; Striatum; Rat (Santiago, M. (858) 26)

Lateral septal nucleus; Dopamine; Stress (Adams, B.W. (858) 177)

Flesinoxan; Noradrenaline; $5\text{-}HT_{1A}$ receptors; Locomotor activity (Suwabe, A. (858) 393)

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Ventral pallidum; Dizocilpine (MK-801); Dopamine release; Ventral tegmental area; Motor behavior (Kretschmer, B.D. (859) 147)

Cocaine; GBR12909; L-[β-^{11}C]DOPA; [^{11}C]β-CFT; Positron emission tomography; Monkey brain (Tsukada, H. (860) 141)

Monoamines; Amygdala; Locus ceruleus; Sleep; Cat (Shouse, M.N. (860) 181)

Glutamate; Delta opioid receptor; Striatum; Naltrindole; [D-$Pen^{2,5}$]-enkephalin (Rawls, S.M. (861) 296)

Ca^{2+} overload; Carrier-mediated transport; Hypoxia; Ischemia; Na^+ overload (Yahagi, N. (864) 157)

AV3V; Median preoptic nucleus; Natriuresis (Bealer, S.L. (864) 291)

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Excitatory amino acids; Amino acid transport reversal; Dihydrokainic acid; Spinal cord injury (McAdoo, D.J. (865) 283)

Medial prefrontal cortex; D1 dopamine receptor; Glutamate; α-Aminobutyric acid (Abekawa, T. (867) 250)

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toxicity; Nigrostriatal; Parkinson's disease (Disshon, K.A. (868) 95)

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Electrical stimulation; Ventromedial hypothalamus; VMH (De Fanti, B.A. (869) 6)

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Serotonin; Lithium; Citalopram; Augmentation strategy (Wegener, G. (871) 338)

Adenosine; Inosine; Hypoxanthine; Xanthine; Hippocampus; Epilepsy; Kainate; Pentylenetetrazol; Bicuculline; Adenosine deaminase (Berman, R.F. (872) 44)

Paraventricular–ventromedial hypothalamic nuclei; Monoamine–peptide interaction (Orosco, M. (872) 64)

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Hippocampus; Cerebral ischemia; Glutamate; Adenosine; Rabbit (Martinez-Tica, J.F. (872) 110)

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Electric stimulation; Micellar electrokinetic chromatography; Prefrontal cortex; Nucleus accumbens; GABA–glutamate–dopamine interaction (Tucci, S. (887) 259)

Monitoring focal cerebral ischemia; Endothelin-1; Laser Doppler flowmetry; Neurotransmitters (Bogaert, L. (887) 266)

Spectral analysis; Theta rhythm; Septohippocampal system; Septum (Keita, M.S. (887) 323)

Conditioned taste aversion; Parabrachial nucleus; Glutamate; Rats (Bielavska, E. (887) 413

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Microelectromyography
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Microglia
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P2 receptor; Calcium signaling; Receptor modulation (Möller, T. (853) 49)

S100; Astrocyte; Nitric oxide; Site-directed mutagenesis; Cytokine (Petrova, T.V. (853) 74)

Kainic acid; Neurodegeneration; Hippocampus; Superoxide; Cu,Zn-superoxide dismutase; Free radical; Astrocyte (Kim, H.-C. (853) 215)

Lipopolysaccharide; Neural cell adhesion molecule; Neuron–glia interaction; Astrocyte; Cerebral inflammation (Chang, R.C.C. (853) 236)

Naloxone; Superoxide; Non-heme iron–nitrosyl complex; Electron paramagnetic resonance (Chang, R.C.C. (854) 224)

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Chemokine; MCP-1; Thalamus; Retrograde neuronal degeneration (Muessel, M.J. (870) 211)

Intracerebral hemorrhage; Inflammation; Intracellular adhesion molecule-1; Macrophage; Neutrophil (Gong, C. (871) 57)

Agmatine; Nitric oxide; Inducible nitric oxide synthase; Neurotoxicity; Culture (Abe, K. (872) 141

Calcium-binding protein; Iba1; Mouse; Olfactory bulb; Synaptic plasticity (Okere, C.O. (877) 85)

Interferon-γ; Tumor necrosis factor α; Lipopolysaccharide; Knockout mouse; Free radical (Kong, G.-Y. (878) 105)

Glaucoma; Lateral geniculate nucleus; Neuron; Nitric oxide synthase; Rat (Wang, X. (878) 136)

Astrocytes; Glial fibrillary acidic protein; Interleukin-6; IVIg therapy; Neuropathic pain (Arruda, J.L. (879) 216)

Microglial response factor-1; Cerebral ischemia; Macrophage (Kato, H. (882) 206)

Blood vessel; Amyloid β-protein; Inflammation (Togo, T. (885) 117)

Blood–brain barrier; Brain edema; Knock out mouse; Plasminogen activator; Urokinase (Kataoka, K. (887) 187)

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TGF-β1 immunoreactivity; Hippocampal CA1 pyramidal neurons; Transient forebrain ischemia; DNA fragmentation (Zhu, Y. (866) 286)

Microglia/macrophage
Central nervous system regeneration; Visual pathway (Ghali, R.P. (854) 178)

Microglia/macrophages
Heat shock protein; Spinal cord contusion; Astrocyte (Mautes, A.E.M. (883) 233)

Microglial response factor-1
Cerebral ischemia; Microglia; Macrophage (Kato, H. (882) 206)

Microinjection
Parabrachial nucleus; Nucleus of the solitary tract; Pedunculopontine tegmental nucleus; Fourth ventricle; Food intake; Midazolam; Benzodiazepine; GABA; Palatability; Hedonic; Aversive; Taste; Pleasure; Reward (Söderpalm, A.H.V. (877) 288)

Microiontophoresis
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Microtubule-binding
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Microvascular density
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Midazolam
Parabrachial nucleus; Nucleus of the solitary tract; Pedunculopontine tegmental nucleus; Fourth ventricle; Food intake; Microinjection; Benzodiazepine; GABA; Palatability; Hedonic; Aversive; Taste; Pleasure; Reward (Söderpalm, A.H.V. (877) 288)

Midbrain
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Brain stimulation; Rate–frequency curve shift; Lidocaine; Reward; Self-stimulation (Waraczynski, M. (885) 154)

Cerebrum; Hippocampus; Cerebellum; Brain stem; Hypothalamus (Won, C.-K. (887) 250)

Middle cerebral artery occlusion
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Astrocytes; Electrophysiology; Neuroglia; Rat (Köller, H. (872) 194)

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Middle-ear pressure
Medial olivocochlear bundle; Otoacoustic emission; Middle-ear impedance; Stapedius reflex (Büki, B. (852) 140

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N-Acetylcysteine; Aging; Thiol; Complex I; Parkinson's disease (Martínez Banaclocha, M. (859) 173)

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MK-801 receptor ion-channel complex
Hypoxia; Newborn; Spermine; Nitric oxide synthase (Zubrow, A.B. (854) 11)

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Locomotion; Networks; Ion channel; Modeling; Behavior (Grillner, S. (886) 224)

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Monkey brain
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Cocaine; GBR12909; L-[β-^{11}C]DOPA; [^{11}C]β-CFT; Positron emission tomography; Microdialysis (Tsukada, H. (860) 141)

Aging; Docosahexaenoic acid; Regional cerebral blood flow; Regional metabolism; Positron emission tomography (Tsukada, H. (862) 180)

Serotonin receptor; [^{11}C]MDL100,907; Aging; Positron emission tomography (Kakiuchi, T. (883) 135)

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Serotonin; Dopamine; Norepinephrine; Tooth movement (Yamashiro, T. (878) 199)

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Monoamine oxidase
Dopamine; Noradrenaline; Pargyline; Locus coeruleus; Noradrenergic neuron (Kishimoto, Y. (859) 373)

Dopamine; Dopamine metabolism; Dihydroxyphenylacetaldehyde; DOPALD; L-DOPA (Fornai, F. (861) 126)

Aging; Depression; Hypothalamus–pituitary–adrenal axis; Olfactory bulbectomy (Slotkin, T.A. (882) 149)

Monoamine–peptide interaction
Microdialysis; Paraventricular–ventromedial hypothalamic nuclei (Orosco, M. (872) 64)

Monoclonal antibody
FITC-dextran; Cerebral venule; CD18; Anti-CD18; WT.3; Brain; Mast cell; Compound 48/80 (Mayhan, W.G. (869) 112)

Mononeuropathy
Galanin; Opioid; Galantide; Nociceptive test (Zhang, Y.-P. (852) 485)

Mood disorder
Magnetic field; Serotonin; 5-HT_{1B} receptor; Rat brain (Massot, O. (858) 143)

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Withdrawal; Abstinence; Physical dependence; Cholinergic receptor; Blood pressure; Naloxone; Acetylcholinesterase inhibitor (Buccafusco, J.J. (852) 76)

Androgenic–anabolic steroid; Immediate-early gene; Striatum; Thalamus; β-Endorphin (Harlan, R.E. (853) 99)

Corticosterone; Prolactin; Lewis; Fischer 344; Stress (Baumann, M.H. (858) 320)

Gustatory thalamus; VPMpc; LiCl; Conditioned taste aversion; Anticipatory contrast (Grigson, P.S. (858) 327)

CTA; Conditioned taste aversion; Corticosterone; Saccharin; Anticipatory contrast; Individual differences (Gomez, F. (863) 52)

Nucleus accumbens; Mesolimbic; Shell; Core; Opiate; Opioid; Striatum; Dopamine; Naloxone; Agonist; Antagonist; Hyperphagia; Palatability; Appetite; Food intake; Hedonic; Reward; Pleasure; Motivation; Addiction; Genes (fos); Transcription factors (Peciña, S. (863) 71)

18-Methoxycoronaridine (18-MC); Sensitization; Locomotor activity; Dopamine; Drug addiction (Szumlinski, K.K. (864) 13)

Genetic variability; Sensitivity; Tolerance; Pharmacokinetics; Rats (Mas, M. (866) 109)

Circadian rhythm; Phase shift; Entrainment; Non-photic; Opioid; Fentanyl; μ Receptor; Superior colliculus (Meijer, J.H. (868) 135)

Antinociception; Opioid receptor; Naltrindole; Transgenic mouse; Stress-induced analgesia (LaBuda, C.J. (869) 1)

Arcuate neurons; Norepinephrine; Phentolamine; Prazosin; Yohimbine; Propranolol; Naloxone; Glibenclamide; Cromakalim; Brain slice; Rat (Kang, Y.-M. (869) 146)

Methadone; Calcium channel current; Neuroblastoma cell (Yang, J.C. (870) 199)

Medial thalamus; Parafascicularis; Nociception; Vocalization; Methylnaloxonium (Harte, S.E. (874) 78)

Feeding; Morphine-6β-glucuronide; G-protein α subunits; Antisense oligodeoxynucleotides (Silva, R.M. (876) 62)

Ketanserin; Dizocilpine; NMDA receptor; 5-HT_{2A} receptors; Dependence; Tolerance (Ninan, I. (876) 215)

Rat; Ketoprofen; Artificial ureteral calculosis; Pre-emptive analgesia; Visceral pain (Giamberardino, M.A. (878) 148)

Morphine sensitization
Escape deficit; Stress; D_1-dopamine receptor; Dopamine (Scheggi, S. (853) 290)

Dopamine; Lithium; Nucleus accumbens; Stress (Gambarana, C. (877) 218)

Morphine tolerance
Mouse strain 129/SvEv; Excitatory opioid receptor function; Antinociceptive tail-flick assay; GM1 ganglioside; Naltrexone (Crain, S.M. (856) 227

G protein; G_z; $G_{z\alpha}$-deficient mice; Opioid receptor; Behavioral testing; Analgesia (Hendry, I.A. (870) 10)

Morphine withdrawal
Soluble guanlylyl cyclase inhibitor; Voltammetry; Microdialysis; Locus coeruleus (Sullivan, M.E. (859) 45)

Morphine-6β-glucuronide
Feeding; Morphine; G-protein α subunits; Antisense oligodeoxynucleotides (Silva, R.M. (876) 62)

Morphology
Primate; Retinal cell; Patch clamp electrophysiology; Voltage-gated ion channel (Han, Y. (875) 175)

Immunohistochemistry; Biocytin; Pyramidal neuron; Multipolar neuron (Gigg, J. (884) 35)

Morphometry
Down Syndrome; Ts65Dn mouse; Temporal cortex; Synapses; Memory (Kurt, M.A. (858) 191)

Endothelium; Middle cerebral artery occlusion; Brain; Rat (Lin, B. (865) 237)

Morris water maze
DHEAS; Steroid sulfatase inhibitor; Learning and memory; Neurosteroid (Johnson, D.A. (865) 286)

DFF45; Spatial learning; Apoptosis; Dentate granule cells; Hippocampus (Slane, J.M. (867) 70)

Sparse-fur mouse; Ornithine transcarbamylase deficiency; Hyperammonaemia; Passive avoidance learning (D'Hooge, R. (876) 1)

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Adeno-associated virus; Choline acetyltransferase; Gene transfer; Gene therapy; NGF (Klein, R.L. (875) 144)

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Mossy fiber
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Mossy fiber LTP
Neurogenesis; Dentate gyrus; LTP; Mossy fiber; Precursor cell; Hippocampus (Derrick, B.E. (857) 300)

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Conditioned fear; Extracellular serotonin (5-HT); Locus coeruleus (LC); Arterial blood pressure; Heart rate; Telemetric recording; Push–pull superfusion (Kaehler, S.T. (859) 249)

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Motoneuron
Locomotion; Electrophysiology; Noradrenaline; Methoxamine; Clonidine; Isoproterenol (Sqalli-Houssaini, Y. (852) 100)

Intermediate filament; Sciatic nerve; Transgenic mice (Xu, Z. (866) 326)

β-Endorphin; Pro-opiomelanocortin; Nerve stimulation; Exercise (Hughes, S. (887) 191)

Motoneuron disease
T-588; Wobbler mouse; LDH; ChAT; cAMP (Ikeda, K. (858) 84)

Motor activity
ω-Conotoxin; N-type calcium channel; Striatum; Rotation; D2-dopamine receptors (Haubrich, C. (855) 225)

Cerebellum; GM1; Ionizing radiation; Neuroprotective agent; X-rays (Guelman, L.R. (858) 303)

Ritalin; Methylphenidate; Behavioral sensitization; Circadian; Psychomotor stimulants (Gaytan, O. (864) 24)

Norepinephrine; 6-hydroxydopamine; Ambulation; Circadian rhythm (Murrough, J.W. (883) 125)

Motor behavior
Ventral pallidum; Dizocilpine (MK-801); Dopamine release; Microdialysis; Ventral tegmental area (Kretschmer, B.D. (859) 147)

Oxidative damage; Lipid peroxidation; Striatum; Transgenic mice; Huntington's disease (Pérez-Severiano, F. (862) 234)

Amygdala; Basal ganglia; Cerebral cortex; Hypothalamus; Striatum (Swanson, L.W. (886) 113)

Motor circuitry
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Motor circuits
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Motor control
Stretch reflex threshold; Arm movement; Hemiplegic; Electromyographic patterns; Spasticity (Levin, M.F. (853) 352)

Cortical masticatory area; Motor cortex; Amygdala; Rhythmic jaw movement; Monkey (Hatanaka, N. (854) 220)

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NMDA; Calcium channels; Afterhyperpolarization; Phase lag; Intersegmental coordination (Tegnér, J. (864) 81)

Respiratory control; Reaching; Grasping; Neural coupling (Mateika, J.H. (864) 327)

Functional magnetic resonance imaging; Striatum; Putamen; Laterality; Extrapyramidal system; Inhibition (Scholz, V.H. (879) 204)

Motor cortex
Cortical masticatory area; Amygdala; Rhythmic jaw movement; Motor control; Monkey (Hatanaka, N. (854) 220)

Brainstem; Cholinergic; Choline acetyltransferase; Phosphorylated neurofilament; Spinal cord (Tsang, Y.M. (861) 45)

Oscillation; Intracellular recording; Long-lasting hyperpolarization; Long-term potentiation (Kitagawa, H. (869) 69)

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Motor deficit
Testing strategy; Combined motor score (Metz, G.A.S. (883) 165)

Motor evoked potential
Synaptic transmission; Focal cerebral ischemia; Ischemic penumbra; Transcranial magnetic stimulation (Bolay, H. (873) 26)

Motor function
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Multiple sclerosis; Neurodegeneration; Oligodendrocyte; Footprint; Theiler's virus (McGavern, D.B. (877) 396)

Motor learning
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Automaticity; Reaching movements; Procedural learning (Ghilardi, M.-F. (871) 127)

Plasticity; Cerebellum; Long-term depression; Signal transduction; Error (Ito, M. (886) 237)

Motor neuron disease
Neurofilament gene expression; mRNA expression; Regulatory protein (Cañete-Soler, R. (867) 265)

ALS; FALS; Apoptosis; P53 (Prudlo, J. (879) 183)

Motor pattern
Walking; Stretch reflex; Plasticity; Cat (Pearson, K.G. (883) 131)

Motor system
Brainstem; Fast blue; Spinal cord; Viral tracing (Kim, E.-S. (857) 41)

Motor unit
Vibration-induced kinesthetic illusion; Antagonist vibratory response; Wrist extensor muscle; Human; Microelectromyography (Calvin-Figuière, S. (881) 128)

Mouse
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Glutathione; L-Buthionine-[*S,R*]-sulfoximine; Convulsion; Pentylenetetrazol (Abe, K. (854) 235)

Astroglia; Glutamine synthetase; Olfactory bulb; Synaptic plasticity (Okere, C.O. (857) 308)

Neurosteroid; Intracerebroventricular infusion; Spatial memory (Ladurelle, N. (858) 371)

Bombesin; In vivo microdialysis; Rat; Audiogenic seizure (Andrews, N. (859) 386)

ZEN; ZnT3; Zinc; Synapse; Olfactory bulb (Jo, S.M. (865) 227)

Olfactory marker protein; OMP; Olfactory receptor neurons; Conduction velocity; Axon diameter; Gene targeting; Knock-out (Griff, E.R. (866) 227)

Brain; Ischemia; Transgenic; Histology; Cerebrovascular anatomy (Wellons III, J.C. (868) 14)

Neurodegeneration; Hippocampus; Excitotoxicity; Apolipoprotein E (Grootendorst, J. (868) 165)

Lactate dehydrogenase; Apoptosis; Necrosis; Cerebellum; Explant; Myelin; Picornavirus; TMEV (Anderson, R. (868) 259

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Cerebral ischemia; Selective neuronal vulnerability; Laser Doppler flowmetry; Hippocampus; C57BL/6 (Yang, G. (870) 195)

Aversive conditioning; T-maze; Hippocampus; Memory; Retention (Farr, S.A. (872) 242)

Cerebellum; Fractionator; Granule cell; Prenatal irradiation; Stereology (Schmitz, C. (872) 250)

Hyperalgesia; MAPK; NGF; Carrageenan; Inflammation (Sammons, M.J. (876) 48)

Calcium-binding protein; Iba1; Microglia; Olfactory bulb; Synaptic plasticity (Okere, C.O. (877) 85)

Optical recording; Voltage-sensitive dye; Cochlear nucleus; Vestibular nucleus; Synaptic transmission; Brainstem (Yang, S.-M. (877) 95)

Centrifugal visual system; Dorsal raphe nucleus; Serotonin; Retrograde axonal transport; Immunohistochemistry (Repérant, J. (878) 213)

Carbachol; Glutamate; EPSP; Neocortex (Hsieh, C.Y. (880) 51)

Schwann cell; Cell culture; Collagen; Cell migration; Aging (Santos, A.R. (881) 73)

Mouse embryo
Ob-Rb; Brain; In situ hybridization (Udagawa, J. (868) 251)

Mouse strain
Hippocampus; Immunocytochemistry, Excitotoxicity (Schauwecker, P.E. (884) 116)

Mouse strain 129/SvEv
Morphine tolerance; Excitatory opioid receptor function; Antinociceptive tail-flick assay; GM1 ganglioside; Naltrexone (Crain, S.M. (856) 227)

Moveable electrode
Brain-stimulation reward; Mapping; Lateral preoptic area; Trade-off functions; Medial forebrain bundle (Bushnik, T. (881) 103)

Movement predictability
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Movement-related cortical potential
Functional MRI; Brain activation; Motor function; Muscle contraction; Thumb movement (Yue, G.H. (856) 291)

Moxonidine
Arterial blood pressure; Cardiovascular regulation; Hypertension; Rostral ventrolateral medulla; I_1-imidazoline receptors; Wild type mice; α_{2A}-Adrenergic mice (Tolentino-Silva, F.P. (862) 26)

MPP+
GH3 cell; Ca^{2+}; H_2O_2; Phospholipase A_2; Apoptosis (Yoshinaga, N. (855) 244)

Dihydroxyphenylacetaldehyde; Dihydroxyphenylethanol; Dihydroxyphenylacetic acid; Dopamine; Complex I; Rotenone; Parkinson's disease (Lamensdorf, I. (868) 191)

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Dopamine depletion; Glutathione; Hydroxyl radicals; Nucleus caudatus putamen; Salicylic acid; Neuroprotection; Free radical scavenger (Mohanakumar, K.P. (864) 281)

Estradiol; Microdialysis; Neuroprotection; Neurotoxicity; Nigrostriatal; Parkinson's disease (Disshon, K.A. (868) 95)

Aging; Dopamine; Oxidative stress; DNA damage; Mitochondria (Mandavilli, B.S. (885) 45)

NADH dehydrogenase; Rotenone; Mitochondrial respiratory dysfunction; Diethyldithiocarbamate; Dopamine metabolism. (Thiffault, C. (885) 283)

L-DOPA; Recovery; Experimental parkinsonism; DAT (Fornai, F. (887) 110)

MR
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MR spectroscopy
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MRI
Sexual dimorphism; Corpus callosum; Amygdala; Brain volume; Rhesus monkey (Franklin, M.S. (852) 263)

Olfactory bulbectomy; Animal model of depression; Degeneration; Ventricular enlargement (Wrynn, A.S. (879) 193)

mRNA
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D_1 and D_2 receptors; Haloperidol; Locomotor activity; Autoradiography (Besret, L. (853) 125)

Antisense; Opioid growth factor receptor; ζ opioid receptor; Chromosome; Gene; Human; Antisense (Zagon, I.S. (856) 75

GnRH; LHRH; Excitatory amino acid (Wu, T.J. (862) 238)

Thyroid hormone; Brain; G protein; Development (Cai, D.-S. (864) 195)

Pentraxin; Pyramidal neuron; Hippocampus; Entorhinal cortex; Liver; Cerebellum; Western blot; In situ hybridization; Immunohistochemistry (Yasojima, K. (887) 80)

mRNA expression
Neurofilament gene expression; Regulatory protein; Motor neuron disease (Cañete-Soler, R. (867) 265)

Kindling; Amygdala; Seizures; Claustrum; Rat (Sitcoske O'Shea, M. (873) 1)

Cardiac sodium channel; RH-1/SkM2; hH1/SCN5A; Limbic; Long QT3 syndrome (Donahue, L.M. (887) 335)

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Mu opioid receptor
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Delayed rectifier K^+ currents; Inward rectifier K^+ currents; Membrane potential; Glia (Pannicke, T. (862) 187)

Multichannel recording
Field potentials; Population spikes; Gating; Medial perforant path; Angular bundle; Hippocampus; Paired-pulse facilitation; Paired-pulse depression; Presynaptic inhibition; Postsynaptic inhibition (Canning, K.J. (863) 271)

Multidrug resistance-associated protein
Blood–brain barrier; Brain microvessel; Reverse transcriptase–polymerase chain reaction; Western blot (Zhang, Y. (876) 148)

Multineuronal recording
Neural coding; Visual system; Retina; Neural ensembles; Discriminant analysis (Fernández, E. (887) 222

Multiple sclerosis
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Neurodegeneration; Oligodendrocyte; Footprint; Theiler's virus; Motor function (McGavern, D.B. (877) 396)

Multiple system atrophy
Polyclonal antibody; Cerebellar cortex; Cranial nerve nucleus; Auditory system (Matsuo, A. (859) 57)

Multipolar neuron
Morphology; Immunohistochemistry; Biocytin; Pyramidal neuron (Gigg, J. (884) 35)

Mu-opioid receptor
Endomorphin; c-FOS; Immunocytochemistry; Intracerebroventricular; Tail flick latency (Jiang, Y. (873) 291)

Muramyl dipeptide
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Muscarinic
Acetylcholine; Receptor; Dicyclomine; Traumatic brain injury; Rat (Jiang, Z.-W. (852) 37)

Adenosine; Hippocampus; M_2; AF-DX 116 (Coelho, J.E. (869) 158)

Vesicoanal; Nociception; Bladder; Acetylcholine; Lower urinary tract (Thor, K.B. (870) 126)

Nicotinic; Cholinergic receptor; Spinal cord; Dorsal horn; Muscle contraction; Blood pressure; Atropine; Bethanechol; Mecamylamine (Hand, G.A. (877) 382)

Muscarinic effect
Thalamus; Lithium; Brain region; Aceproмazine; Seizure; 2-Deoxyglucose (Peredery, O. (881) 9)

Muscarinic receptor subtypes
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Muscarinic receptors
Cocaine; Toxicity; Serotonin; Sigma receptor; Genetic model (O'Dell, L.E. (863) 213)

Sensory neurons; Spinal ganglia; Signal transduction; Intracellular calcium; Nociception (Tata, A.M. (866) 65)

Fear-potentiated startle; Ventral tegmental area, Methylscopolamine; Acetylcholine; Laterodorsal and pedunculopontine tegmental nuclei; Mesoamygdaloid dopamine system (Greba, Q. (870) 135

Muscimol
Nicotinic acetylcholine receptor; Nicotine; Methyllycaconitine; Epibatidine; γ-Aminobutyric acid receptors; Long-term potentiation; Hippocampus (Fujii, S. (863) 259)

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Autoradiography; In situ hybridization; Osmotic pump; Flunitrazepam (Kim, H.S. (880) 28)

Muscle afferent ergoreceptors
c-Fos immunoreactivity; Phenylephrine; Baroreceptors; Muscle pressor response (Williams, C.A. (852) 424)

Muscle contraction
Functional MRI; Movement-related cortical potential; Brain activation; Motor function; Thumb movement (Yue, G.H. (856) 291)

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Muscle pressor response
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Muscle sympathetic neuron
Cutaneous sympathetic neuron; Ca^{2+} current; Ca^{2+} channel blocker; Fast Blue labelling; Rat (Kukwa, W. (873) 173)

Muscle sympathetic neurones
Skin sympathetic neurones; Sodium current; Fast Blue labelling; Rats (Rola, R. (857) 327)

Muscle tone
Serotonin; 5,7-DHT; Spinal cord; An intercollicular decerebrated model (Sakai, M. (860) 104)

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MWM
Controlled cortical impact; Neurotrophin (Yan, H.Q. (887) 134)

Mycobacteria
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Myelinated primary
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Myelination
Septohippocampal projection; Parvalbumin; Acetylcholine (Brauer, K. (878) 188)

Myenteric plexus
Cholecystokinin; Enteric nervous system; Vagotomy; Capsaicin; Brain; Immunohistochemistry (Sayegh, A.I. (878) 155)

Myocardial infarction
Intracellular recording; Rat; Slow hyperpolarisation; Vagus; Ventrolateral medulla oblongata (Zagon, A. (854) 172)

Myoclonic twitching
Active sleep; REM sleep; Rat; Infant; Decerebration (Kreider, J.C. (872) 149)

***Myo*-inositol**
Lithium; Sodium valproate; Inositol monophosphates; Creatine; *N*-acetylaspartate (O'Donnell, T. (880) 84)

Mytilus edulis
APGWamide; Neuropeptides; ESI–MS; HPLC; *Lymnaea stagnalis* (Henry, J. (862) 162)

μ_1 Opioid receptor
Feeding; Nucleus accumbens shell; μ Opioid receptor; δ_1 Opioid receptor; δ_2 Opioid receptor; κ_1 Opioid receptor (Ragnauth, A. (876) 76)

M_2
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N06 antibody
Calcium-binding protein; Nucleus magnocellularis; In situ hybridization; Intracellular calcium concentration; Cochlea removal (Stack, K.E. (873) 135)

N1E-115
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$^{22}Na^+$ influx
Neuroprotective drug; Nicotinic receptor; $^{45}Ca^{2+}$ influx; Catecholamine secretion; Adrenal chromaffin cell (Yokoo, H. (873) 149)

NaCl intake
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NADH dehydrogenase
Rotenone; Mitochondrial respiratory dysfunction; Diethyldithiocarbamate; MPTP; Dopamine metabolism. (Thiffault, C. (885) 283)

NADH fluorescence image
Mongolian gerbil; Spreading depression; Regional cerebral blood flow (regional CBF); Extracellular direct-current (DC) potential; Mitochondrial redox state (Hashimoto, M. (872) 294)

NADPH diaphorase
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NADPH oxidase
Chemoreception; Oxygen sensor; Immunohistochemistry; Electron microscopy (Dvorakova, M. (852) 349)

NAD(P)H oxidase
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NADPH-diaphorase
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Nodose ganglion; NOS; Vagus nerve; Vagal ligation; Axonal transport (Fong, A.Y. (878) 240)

Nafadotride
Stimulant drugs; Amphetamine; Psychosis; Behavioral sensitization; Dopamine D3 receptor (Richtand, N.M. (867) 239)

Na,K-ATPase
Isoform; Neuronal cell; Development; Embryonic stem cells; Differentiation (Habiba, A. (875) 1

[^{3}H]-Naloxone
Amphibian; Antinociception; Opioid; β-FNA; nor-BNI; NTI (Newman, L.C. (884) 184)

Naloxonazine
β-Funaltrexamine; 3-Methoxynaltrexone; Endomorphin-1; Endomorphin-2 (Sakurada, S. (881) 1)

Naloxone
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Microglia; Superoxide; Non-heme iron–nitrosyl complex; Electron paramagnetic resonance (Chang, R.C.C. (854) 224)

Gonadotropin-releasing hormone; Luteinizing hormone; Fos; Opioid receptor; Puberty (He, D. (858) 129)

Pain; Nociception; Spinal cord; Phentolamine; Capsaicin (Gjerstad, J. (859) 132)

Nucleus accumbens; Mesolimbic; Shell; Core; Morphine; Opiate; Opioid; Striatum; Dopamine; Agonist; Antagonist; Hyperphagia; Palatability; Appetite; Food intake; Hedonic; Reward; Pleasure; Motivation; Addiction; Genes (fos); Transcription factors (Peciña, S. (863) 71)

Muscle contraction; Arterial Pressure; Rat; Microdialysis (Ishide, T. (865) 177)

Arcuate neurons; Norepinephrine; Phentolamine; Prazosin; Yohimbine; Propranolol; Morphine; Glibenclamide; Cromakalim; Brain slice; Rat (Kang, Y.-M. (869) 146)

c-Fos; Feeding; Nociceptin/orphanin FQ; $[Phe^1\psi(CH_2NH)Gly^2]$nociceptin(1-13)-NH_2 (Olszewski, P.K. (876) 95)

Naltrexone
Mouse strain 129/SvEv; Morphine tolerance; Excitatory opioid receptor function; Antinociceptive tail-flick assay; GM1 ganglioside (Crain, S.M. (856) 227)

Naltrindole
Glutamate; Delta opioid receptor; Striatum; [D-$Pen^{2,5}$]-enkephalin; Microdialysis (Rawls, S.M. (861) 296)

Antinociception; Morphine; Opioid receptor; Transgenic mouse; Stress-induced analgesia (LaBuda, C.J. (869) 1)

Naris closure
Sensory deprivation; Olfactory cortex; Cortical plasticity; Synaptic competition; Golgi stain; Timm stain; Unilateral olfactory deprivation (Wilson, D.A. (853) 317

Natriuresis
AV3V; Median preoptic nucleus; Microdialysis (Bealer, S.L. (864) 291)

Natural cell death
Retinal ganglion cell; PMA; Protein kinase C; Retina; Neuronal survival (Dos Santos, A.A. (853) 338)

Navigation
Hippocampus; Hippocampectomized rat; Place learning; Cognitive mapping (Alyan, S.H. (876) 225)

Na^+ channel
Cerebral ischemia; Cyclic AMP response element binding protein; CREB; Phosphorylation; Ca^{2+} channel (Tanaka, K. (873) 83)

Na^+ channel blockers
Neuroprotection; Ototoxicity; Amikacin; Auditory brainstem response (Nekrassov, V. (868) 222)

Na^+ current
4-aminopyridine; Cerebellar granule cells (Mei, Y.A. (873) 46)

Na^+ overload
Ca^{2+} overload; Carrier-mediated transport; Hypoxia; Ischemia; Microdialysis (Yahagi, N. (864) 157)

Na^+/Ca^{2+} exchanger
AMPA receptor; Ca^{2+} channel; Astrocyte (Smith, J.P. (887) 98)

Na^+/H^+ exchange
Cerebral ischemia; Cerebroprotection; Free fatty acid; Phospholipase; Amiloride derivative; *N*-(*N*-ethyl-*N*-isopropyl)-amiloride (Phillis, J.W. (884) 155)

Na^+/H^+-exchanger
Na^+-dependent Cl^-/HCO_3^--exchanger; Amiloride; DIDS; Harmaline; Intracellular pH; Excitability; Epilepsy; Neuroprotection (Bonnet, U. (872) 116)

Na^+–Ca^{2+} exchanger
Isoform; Postnatal development (Sakaue, M. (881) 212)

Na^+-dependent Cl^-/HCO_3^--exchanger
Na^+/H^+-exchanger; Amiloride; DIDS; Harmaline; Intracellular pH; Excitability; Epilepsy; Neuroprotection (Bonnet, U. (872) 116)

NBQX
Decapitation ischemia; CA1; Hippocampal slices; Population spikes; MK-801; Neuroprotection (Artemenko, D.P. (863) 66)

Near infrared spectroscopy
Sleep; Cerebral metabolism (Spielman, A.J. (866) 313)

Neck muscle
Head movement; Mastication (Igarashi, N. (871) 151

Necrosis
Oxygen–glucose deprivation; Non-*N*-methyl-D-aspartate glutamate receptor; Oligodendroglia; Calcium influx (Yoshioka, A. (854) 207)

Gene transfer; Neurodegeneration; Apoptosis inhibitor; Hippocampus (Phillips, R.G. (859) 202)

Lactate dehydrogenase; Apoptosis; Mouse; Cerebellum; Explant; Myelin; Picornavirus; TMEV (Anderson, R. (868) 259)

Neuron; Apoptosis; Staurosporine; *N*-Methyl-D-aspartate; Caspase (Thomas, C.E. (884) 163)

Nef
Human neurons; HIV; Human glia; SK-N-SH; TNFα (Trillo-Pazos, G. (864) 315)

Nefiracetam
Anticonvulsant; Peripheral-type benzodiazepine receptor; Ro 5-4864; EL mouse; Epilepsy (Shiotani, T. (859) 255)

Negative feedback
Triiodothyronine; Raphe pallidus; Raphe obscurus; Parapyramidal region (Yuan, P.-Q. (868) 22)

[^{3}H]Nemonapride
Dopamine D_2 receptor; Dopamine uptake transporter; Parkinson's disease; Striatonigral degeneration; [^{3}H]WIN 35428 (González, A.M. (852) 228)

Neoangiogenesis
Astrogliosis; GFAP; Microvascular density; Reactive astrocytes; VEGF (Salhia, B. (883) 87)

Neocortex
Anesthesia; Behavior; Consciousness; Dementia, Electrocorticogram; Gamma wave (Vanderwolf, C.H. (855) 217)

NMDA; AMPA; Desensitisation; Network; Adaptation; Neocortex, Evoked potential, Cyclothiazide (Addae, J.I. (869) 211)

Gabapentin; Synaptosomes; Fura-PE3; Calcium influx; Rat (Meder, W.P. (875) 157)

Long-term potentiation; 2-deoxyglucose (Zhang, Z.-w. (876) 103)

Epilepsy; anticonvulsant; phenytoin; benzodiazepine; pharmacology; rat (Francis, J. (876) 131)

Quisqualate; Inward currents; mGluRs; G-proteins (Chu, Z. (879) 88)

Carbachol; Glutamate; EPSP; Mouse (Hsieh, C.Y. (880) 51

LTP; Acetylcholine; Freely moving; Rat (Boyd, T.E. (881) 28)

EPSP; Nicotine; Acetylcholine; Rat; Electrophysiology (Chu, Z.G. (887) 399)

Neocortical cell
Macrophage migration inhibitory factor; Hippocampal cell; Neuron; Glucocorticoid (Vedder, H. (869) 25)

Neocortical ectopia
New Zealand Black mouse; Maze learning; Lashley maze (Hyde, L.A. (887) 482)

Neonatal
Developmental neurotoxicity; Nicotine; Nicotinic receptor; Behavior; Adult (Eriksson, P. (853) 41)

Neonatal clomipramine
REM sleep deprivation; Oxotremorine; Passive avoidance; Cholinergic sensitivity (Prathiba, J. (867) 243)

Neonatal lesion
Entorhinal cortex; Neural development; Dopamine metabolism; Schizophrenia (Uehara, T. (860) 77)

Neonate
Rat; Malnutrition; Cerebellum; Cyclin D1; Cip; Ink4 inhibitor; Neuron; Glia (Shambaugh III, G.E. (855) 11)

Neopallium
Neuroepithelium; Apoptosis; Locus coeruleus; Noradrenergic; Cholinergic (Popovik, E. (853) 227)

Neostigmine
Dopamine; Acetylcholine; Levodopa (Izurieta-Sánchez, P. (856) 250)

Neostriatum
cAMP-dependent phosphodiesterase; PDE4; Noradrenergic lesions; 6-OHDA; Rolipram; Western blotting, RT-PCR; Hypothalamus; Cerebellum (Farooqui, S.M. (867) 52)

Voltage-operated calcium channel; Dopamine; Patterned firing; Fast cyclic voltammetry; Brain slice (Phillips, P.E.M. (884) 139)

Nerve growth factor
Neurofilament; Acrylamide; Neurotoxicity; Gene expression; PC12 cells (Lin, W.W. (852) 297)

Alzheimer's disease; Kainic acid lesion; Medial septum; Nucleus of basalis of Meynert; Apoptosis (Oh, J.D. (853) 174)

Sodium channel; Inflammatory pain; Hyperalgesia (GouldIII, H.J. (854) 19)

HMG-CoA reductase inhibitor; Simvastatin; PC12 cell; Trk; Tyrosine phosphorylation (Kumano, T. (859) 169

Axon; Nerve injury; Sodium channel (Nonaka, T. (859) 280)

Alzheimer's disease; Par-4; Choline acetyltransferase; Amyloid β peptide; Neurotransmitter (Guo, Q. (874) 221)

Ischemia; Neurotrophin; Spinal cord; Functional recovery (Bowes, M. (883) 178)

Nodose ganglion; Petrosal ganglion; Neurotrophin-3; Neurotrophin-4; Vasoactive intestinal peptide; Tyrosine hydroxylase (Helke, C.J. (884) 206)

Corticosterone; Long-term potentiation; Paired-pulse facilitation; Synaptic plasticity; Synaptic transmission; Reverse-transcription-polymerase chain reaction; Neurotrophin; Brain-derived neurotrophic factor (BDNF); Neurotrophic factor-3 (NT-3) (Zhou, J. (885) 182)

Nerve heteroconnection
Vagus nerve; Hypoglossal nerve; Astrocyte (Lan, C.-T. (881) 222)

Nerve injury
Axon; Nerve growth factor; Sodium channel (Nonaka, T. (859) 280)

Development; Regeneration; Periodontal ligament; Ruffini endings; Terminal Schwann cells (Atsumi, Y. (871) 201)

Lingual nerve; Spontaneous activity; Mechanical sensitivity; Dysaesthesia; Paraesthesia (Yates, J.M. (874) 37)

Neurotrophin-3; Antisense oligonucleotide; Aβ-fiber; Allodynia (White, D.M. (885) 79)

Allodynia; Dorsal root ganglion; Neuropeptide; Spinal cord (Liu, H.-X. (886) 67)

Nerve lesion
Inflammation; Nociception; Dynorphin B; Nociceptin; Enkephalin; Descending pathway; Periaqueductal gray (Rosén, A. (857) 212)

Nerve regeneration
Calcitonin gene related peptide; Chronic constriction injury; Epidermal innervation; Protein gene product 9.5; Tumor necrosis factor (Lindenlaub, T. (866) 15)

Nerve stimulation
β-Endorphin; Motoneuron; Pro-opiomelanocortin; Exercise (Hughes, S. (887) 191)

Nerve terminal
Synapse; Stereology; Numerical integration; Algebraic system (Kim, S. (877) 209)

Ap_4A; Diadenosine polyphosphate; Hippocampus; ATP; Adenosine; Receptor (Pereira, M.F. (879) 50

Netrin
Axon guidance molecule; Neurotrophin; Semaphorin-III; Human; Osteoblast; Osteoclast (Togari, A. (878) 204)

Network
NMDA; AMPA; Neocortex; Desensitisation; Adaptation; Neocortex, Evoked potential, Cyclothiazide (Addae, J.I. (869) 211)

Networks
Locomotion; Ion channel; Modulation; Modeling; Behavior (Grillner, S. (886) 224)

Neural cell adhesion molecule
Lipopolysaccharide; Neuron–glia interaction; Microglia; Astrocyte; Cerebral inflammation (Chang, R.C.C. (853) 236)

Neural coding
Visual system; Retina; Neural ensembles; Discriminant analysis; Multineuronal recording (Fernández, E. (887) 222)

Neural coupling
Motor control; Respiratory control; Reaching; Grasping (Mateika, J.H. (864) 327)

Neural damage
Endothelin; Hypoxia; Laser Doppler flowmetry; Reoxygenation (Park, L. (883) 51)

Neural development
Neonatal lesion; Entorhinal cortex; Dopamine metabolism; Schizophrenia (Uehara, T. (860) 77)

Neural dynamics
Auditory cortex; Oscillation; Spontaneous activity; Spatio-temporal analysis; Optical imaging (Tokioka, R. (861) 271)

Neural ensembles
Neural coding; Visual system; Retina; Discriminant analysis; Multineuronal recording (Fernández, E. (887) 222)

Neural integrator
Vestibular; Oculomotor; Glutamate; NMDA; AMPA; Excitatory amino acid (Priesol, A.J. (857) 252)

Neural plasticity
Protein kinase C; Vestibular compensation; Ca^{2+}/calmodulin-dependent kinase II; Vestibular nuclei (Sansom, A.J. (882) 45)

Neural stimuli
CRH-41; ACTH; Adrenalectomy; Metabolic stimuli (Weidenfeld, J. (877) 73)

Neuregulin
Sciatic nerve; Conditioned medium; Schwann cell; PC12 cell; Neuronal differentiation (Villegas, R. (852) 305)

Ensheathing cell; Glial growth factor 2; Ultrastructure; Proliferation; Tissue culture (Chuah, M.I. (857) 265

Neurite outgrowth
Acetylcholinesterase; Dorsal root ganglion neuron; Cell adhesion; Adenoviral vector (Bigbee, J.W. (861) 354)

Alzheimer's disease; Amyloid; Neurotrophic; Lipid (Wang, C.-S. (865) 157)

Ca^{2+}/calmodulin-dependent protein kinase II; Autophosphorylation; Ca^{2+}-independent activity; Neuroblastoma (Sogawa, Y. (881) 165)

PC12 cell; Manganese; Integrin; Vitronectin receptor (Lein, P. (885) 220)

Neuroanatomical tracer
Central nucleus of the amygdala; Periaqueductal gray; Hypothalamus; Medial prefrontal cortex; Emotional stress (Paredes, J. (887) 157)

Neuroaxonal dystrophy
Diabetic autonomic neuropathy (Schmidt, R.E. (867) 149)

Neuroblastoma
Retinoic acid; Acetylcholine; Choline; Choline acetyltransferase; Cholinergic; Differentiation (Malik, M.A. (874) 178)

Ca^{2+}/calmodulin-dependent protein kinase II; Autophosphorylation; Neurite outgrowth; Ca^{2+}-independent activity (Sogawa, Y. (881) 165)

Neuroblastoma cell
Morphine; Methadone; Calcium channel current (Yang, J.C. (870) 199)

Neurocalcin
Immunohistochemistry; Periodontal ligament; S100; Tooth pulp; Trigeminal ganglion (Ichikawa, H. (864) 152)

Neurocan
Ankyrin; Chondroitin sulphate proteoglycan; Extracellular matrix; Perineuronal net; Phosphacan; WFA (Haunsø, A. (864) 142)

Neurochemical cascade
Critical time window; Gacyclidine; *N*-Methyl-D-aspartate; Contusive spinal cord injury; Secondary injury (Gaviria, M. (874) 200)

Neurodegeneration
Kainic acid; Hippocampus; Superoxide; Cu,Zn-superoxide dismutase; Free radical; Astrocyte; Microglia (Kim, H.-C. (853) 215)

Gene transfer; Apoptosis inhibitor; Necrosis; Hippocampus (Phillips, R.G. (859) 202)

Apoptosis; Caspase-3; Ethanol; Striatum; Glutamate receptor agonist (Nakai, M. (859) 207)

Glutathione; Excitatory amino acids; Cerebellum; Reactive oxygen species; Development (Ceccon, M. (862) 83

Fluoro-Jade; Staining; Entorhino-hippocampal system; AChE; Deafferentation; Rat (Savaskan, N.E. (864) 44)

Brain-derived neurotrophic factor; Huntington Disease; Trophic factors (Ferrer, I. (866) 257)

Hippocampus; Excitotoxicity; Apolipoprotein E; Mouse (Grootendorst, J. (868) 165)

Methamphetamine; Neurotoxicity; PET; Neuronal plasticity; Parkinson's disease (Harvey, D.C. (871) 259)

Huntington's disease; L-Arginine; Nitric oxide; Peroxynitrite; Cerebral blood flow; Diet (Deckel, A.W. (875) 187)

Multiple sclerosis; Oligodendrocyte; Footprint; Theiler's virus; Motor function (McGavern, D.B. (877) 396)

6-Deoxy-6-β-[^{18}F]fluoronaltrexone; Positron emission tomography; Cortex; Visual system (Cohen, R.M. (879) 1)

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Dietary restriction; Heme oxygenase-1; Oxidative stress; Thiamine (Calingasan, N.Y. (885) 62)

Amphetamine; Limbic System; Seizures; Weanlings (Bowyer, J.F. (885) 166)

Neurodegenerative disease
Rat; Olfactory bulb; Tissue culture; Neurotoxicity; Alzheimer's disease (Horning, M.S. (852) 56)

Basal ganglia; Striatal interneurons; Calcium-binding proteins; Nitric oxide synthase; Human (Wu, Y. (863) 182)

Corpora amylacea; Polyglucosan bodies; S100; Aging; Human brain; Calcium binding; Inflammation (Hoyaux, D. (867) 280)

Neuroendocrine
Hypothalamus; JAK-STAT pathway; gp130; IL-6; CNTF; LIF (Strömberg, H. (853) 105)

Neuroepithelium
Neopallium; Apoptosis; Locus coeruleus; Noradrenergic; Cholinergic (Popovik, E. (853) 227)

Neurofibrillary tangle
Zinc; Alzheimer's disease; Amyloid; Plaque (Suh, S.W. (852) 274)

Tau; Granulovacuolar degeneration; Heart; kidney; Liver; Spleen (Yasojima, K. (865) 116

Neurofilament
Acrylamide; Neurotoxicity; Gene expression; Nerve growth factor; PC12 cells (Lin, W.W. (852) 297)

Axonal transport; Phosphorylation; Cytoskeleton; Axon; Development; Aging (Jung, C. (856) 12)

Serotonin; Parachlorophenylalanine; Neurotrophic factor; S-100β; Serotonin transporter (Ramos, A.J. (883) 1)

Fish; Optic nerve; Optic tectum; Retina (Velasco, A. (883) 98)

Transgenic mouse; Myelinated axon; Intra-axonal recording; Conduction velocity (Križ, J. (885) 32)

Neurofilament gene expression
mRNA expression; Regulatory protein; Motor neuron disease (Cañete-Soler, R. (867) 265)

Neurofilament proteins
Diisopropyl phosphorofluoridate; Chicken; Spinal cord; Neurotoxicity; Organophosphorus ester-induced delayed neuropathy (Gupta, R.P. (878) 32)

Neurogenesis
Dentate gyrus; LTP; Mossy fiber; Mossy fiber LTP; Precursor cell; Hippocampus (Derrick, B.E. (857) 300)

Neurogenic vasodilation
ω-Agatoxin IVA sensitive Ca^{2+} channel; P/Q-type; α-Eudesmol; Plasma extravasation; Trigeminal ganglion (Asakura, K. (873) 94)

Neuroglia
Astrocytes; Electrophysiology; Middle cerebral artery occlusion; Rat (Köller, H. (872) 194)

Neuroimmunoregulation
Lateral hypothalamic area; Amygdaloid nuclear complex; Cytokine (Gao, Y. (859) 364)

Neuroinflammation
Rat; Spatial memory; Rough endoplasmic reticulum; Ultrastructural analysis (Hauss-Wegrzyniak, B. (859) 157)

Neurokinin B receptor
Senktide; Vasopressin; *c-fos*; Hypothalamus; Rat (Ding, Yu.-Q. (882) 95)

Neuroleptanalgesia
Cell culture; Droperidol; Electrophysiology; Neuroleptic; Ventral mesencephalon (Heyer, E.J. (863) 20)

Neuroleptic
Cell culture; Droperidol; Electrophysiology; Neuroleptanalgesia; Ventral mesencephalon (Heyer, E.J. (863) 20)

In situ hybridization; Nuclear orphan receptor; NR4A1; NR4A2; NR4A3; Schizophrenia (Werme, M. (863) 112)

Neuromedin K receptor
Dopaminergic neuron; Co-localization; Immunocytochemistry; Retina; Rat (Chen, L.-W. (885) 122)

Neuromodulation
Hippocampal slice; Field EPSP; Adenosine; Dipyridamole; Protein kinase C (Narimatsu, E. (862) 284)

ATP; Neuromuscular junction; Adenosine (Salgado, A.I. (877) 245)

Neuromuscular junction
Serotonin; Neurotransmission; Crayfish; Synapse (Southard, R.C. (871) 16)

ATP; Neuromodulation; Adenosine (Salgado, A.I. (877) 245)

Neuron
Rat; Neonate; Malnutrition; Cerebellum; Cyclin D1; Cip; Ink4 inhibitor; Glia (Shambaugh III, G.E. (855) 11)

Calcium channel; Toxin; Brain; Glial cell; Choroid plexus; Mapacalcine; Binding; Autoradiography; Receptor; Mapping; Synaptic membrane (Mourre, C. (858) 136)

Development; Doublecortin; Migration disorder (Qin, J. (863) 225)

Connexin; Gap junction; Parvalbumin; Brain development (Belluardo, N. (865) 121)

Macrophage migration inhibitory factor; Hippocampal cell; Neocortical cell; Glucocorticoid (Vedder, H. (869) 25)

Dehydroepiandrosterone; Allopregnanolone; Anoxia; Neurosteroid; 17β-Estradiol (Marx, C.E. (871) 104)

Subthalamic nucleus; Spike train; Chaotic attractor; Firing pattern; Globus pallidus; Substantia nigra (Ryan, L.J. (873) 263)

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Glaucoma; Lateral geniculate nucleus; Nitric oxide synthase; Microglia; Rat (Wang, X. (878) 136)

Nitric oxide; Lipopolysaccharide; Glia; Neurotoxicity; Primary cell culture; Cytokines (Jeohn, G.-H. (880) 173)

Apoptosis; Necrosis; Staurosporine; *N*-Methyl-

D-aspartate; Caspase (Thomas, C.E. (884) 163)

Apoptosis; Platelet-activating factor (PAF) acetylhydrolase; Glutamate; Mitochondrial damage (Hirashima, Y. (885) 128)

δ-opioid receptors; Excitotoxicity; Hypoxia; Glutamate; Protection (Zhang, J. (885) 143)

Neuron death
Adenovirus; 3-Nitropropionic acid; Striatum; Gene therapy; Glucose transport; Neuronal energetics (Fink, S.L. (859) 21)

Neuron number
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Neuron size
Left/right asymmetry; Lateralization; Sensory neurons; Stereology; Neuron number (Lagares, A. (865) 202)

Neuronal
Tissue culture; Electrophysiology (Ray, A.M. (867) 62)

Neuronal activity
Immediate early gene; Birth asphyxia; Catecholamine; Rat brain (Tang, L.-Q. (852) 84)

Neuronal cell
Bay x 3702; Glutamate; Neuroprotection; S-100β; Staurosporine; 5-HT_{1A} receptor agonist (Ahlemeyer, B. (858) 121)

Na,K-ATPase; Isoform; Development; Embryonic stem cells; Differentiation (Habiba, A. (875) 1)

Neuronal cell death
Ischemia; Apoptosis; Bcl-2; Phosphorylation; CPP32 (Yokote, H. (857) 78)

Neuronal cilia
5-HT_6 receptors; Islands of Calleja; Immunocytochemistry; Subcellular localization (Brailov, I. (872) 271)

Neuronal culture
Alzheimer's disease; APP; PKC; Immunoblotting (Pakaski, M. (863) 266)

Neuronal damage
Seizure; Epilepsy; Kainate; Cerebral glucose metabolism; [^{14}C]2-Deoxyglucose (Bouilleret, V. (852) 255)

Cerebral ischemia; Nuclear DNA fragmentation; Apoptosis; Gerbil (Iwai, T. (857) 275)

Neuronal death
Cerebral ischemia; Gerbil; Brain injury; Lipid peroxidation; Tempol (Cuzzocrea, S. (875) 96

Alzheimer's disease; Amyloid precursor protein (Neve, R.L. (886) 54)

Neuronal degeneration
Cerebellum; Purkinje cell; Hereditary ataxia; Tremor (Clark, B.R. (858) 264)

Fluoro-Jade B; Kainic acid; Neuropathology (Schmued, L.C. (874) 123)

Prion (PrP^C); Syrian hamster; GABA; Shrunken dark neuron; Electron microscopy (Bouzamondo, E. (874) 210)

Neuronal differentiation
Neuregulin; Sciatic nerve; Conditioned medium; Schwann cell; PC12 cell (Villegas, R. (852) 305)

Tau; Promoter activity; P19 cells (Heicklen-Klein, A. (874) 1)

FGF-2; Hippocampus; Development; Calcium channel; Intracellular signaling (Katsuki, H. (885) 240)

Neuronal energetics
Adenovirus; Neuron death; 3-Nitropropionic acid; Striatum; Gene therapy; Glucose transport (Fink, S.L. (859) 21)

Neuronal firing
Audiogenic seizure; Phenytoin; Periaqueductal gray; Pontine reticular formation; GEPR-9 (N'Gouemo, P. (859) 311)

Neuronal loss
Kainic acid; Cycloxygenase; Lipoxygenase; Lipid peroxidation; Protein oxidation; Glutathione status; Hippocampus (Kim, H.-C. (874) 15)

Neuronal maturation
Hippocampus; Dentate gyrus; Granule cell; Development (Liu, X.-S. (856) 202)

Neuronal migration and differentiation
E-FABP; DA11; KLBP; C-FABP; Fatty acid lipid binding (Liu, Y. (852) 16)

Neuronal nAChR
RNA-binding; Inner nuclear membrane; *unc*-50 (Fitzgerald, J. (877) 110)

Neuronal nitric oxide synthase
Paraventricular nucleus; Lactation; Citrulline; Maternal; Behavior; Maternal aggression (Gammie, S.C. (870) 80)

Rat basilar artery; Cyclic GMP; Endothelium; Acetylcholine; Bradykinin (Benyó, Z. (877) 79)

Neuronal outgrowth
NO-related species; Peroxynitrite; cGMP; Retina (Cheung, W.S. (868) 1

Neuronal plasticity
Photothrombotic cortical infarction; Differential display of mRNA; Proteasome C2 (Keyvani, K. (858) 386)

Cortical reorganization; Brain injury; Somatosensory cortex (Zarei, M. (870) 142)

Methamphetamine; Neurotoxicity; Neurodegeneration; PET; Parkinson's disease (Harvey, D.C. (871) 259)

Neuronal precursor
Nitrergic neuron; Nitric oxide synthase I; Olfactory bulb; PSA-NCAM; Subventricular zone (Moreno-López, B. (869) 244)

Neuronal sprouting
Pericellular basket; CGRP immunohistochemistry; Sympathetic nervous system (Shafer, A.J. (864) 252)

Neuronal survival
Retinal ganglion cell; PMA; Protein kinase C; Natural cell death; Retina (Dos Santos, A.A. (853) 338)

Neuronal toxicity
CRF; Cortical neurons; Ischaemia; NMDA; AMPA (Craighead, M.W. (881) 139)

Neuronal–glial interaction
Tissue culture; Raphe; MAP kinase; BDNF (Nishi, M. (868) 113)

Neuron–glia interaction
Lipopolysaccharide; Neural cell adhesion molecule; Microglia; Astrocyte; Cerebral inflammation (Chang, R.C.C. (853) 236)

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Substance P; Spinal cord; Diabetes; Formalin test; Pain (Calcutt, N.A. (856) 20)

Neuropathic pain
Rat; Fentanyl; Excitatory amino acid; Kainate receptor (Ta, L.E. (858) 106)

Acetylcholine; Cholinergic receptor; α_2 Adrenergic receptor; Nitric oxide synthase (Xu, Z. (861) 390)

Magnetic source imaging; C-nociceptor; Sensitization; Allodynia; Human (Baron, R. (871) 75)

ORL1 receptor; Nociceptin; Spinal cord; Preemptive analgesia (Yamamoto, T. (871) 192)

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Hyperalgesia; Magnesium; MK-801 (Begon, S. (887) 436)

Neuropathology
Fluoro-Jade B; Neuronal degeneration; Kainic acid (Schmued, L.C. (874) 123

Neuropathy
Hippocampus; Streptozotocin; Excitability; Diabetes; Conduction velocity (Candy, S.M. (863) 298)

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Neuropeptide
cLHRH-I; AVT; Colocalization; Hypothalamus; Immunocytochemistry (D'Hondt, E. (856) 55)

APGWamide; ESI–MS; HPLC; *Lymnaea stagnalis*; *Mytilus edulis* (Henry, J. (862) 162)

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Appetite regulation; Satiety; Brain (Blevins, J.E. (860) 11)

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Brain; Islet amyloid polypeptide; Monoamine; Satiety; Body weight (Arnelo, U. (887) 391)

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Somatostatin; Lidocaine kindling; Gene expression; Epilepsy (Nagaki, S. (852) 470)

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Nitric oxide; Calbindin; Somatostatin; GABA; Primate (Smiley, J.F. (863) 205)

Paraventricular nucleus; Norepinephrine; Muscimol; Energy expenditure; Respiratory quotient (Bishop, C. (865) 139)

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Zinc; PC12 cell; Acetylcholinesterase; Dihydropyridine; Epilepsy; Feeding behavior (Schwartz, P.J. (877) 12)

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Excitotoxicity; Glutamate; Hydroxyl radical; Ensaculin; Microdialysis (Teismann, P. (857) 165)

Bay x 3702; Glutamate; Neuronal cell; S-100β; Staurosporine; 5-HT_{1A} receptor agonist (Ahlemeyer, B. (858) 121)

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NMDA receptor; Phencyclidine receptor; Gacyclidine; GK11 (Hirbec, H. (859) 177)

GPE; Parkinson's disease; Tyrosine-hydroxylase; Rat (Guan, J. (859) 286)

Hydrogen peroxide; Nicotinic receptor; PC12 cell; Ethanol; Oxidative stress (Li, Y. (861) 165)

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5-HT_{1A} agonist; Forebrain ischemia; WAY 100635; Apoptosis (Schaper, C. (883) 41)

Glial cell line-derived neurotrophic factor; Parkinson's disease; Gene-transfer; Adenovirus; Adeno-associated virus; Lentivirus (Björklund, A. (886) 82)

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Neuroprotective agent
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Neuroprotective drug
Nicotinic receptor; $^{22}Na^+$ influx; $^{45}Ca^{2+}$ influx; Catecholamine secretion; Adrenal chromaffin cell (Yokoo, H. (873) 149)

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Neurofilament; Acrylamide; Gene expression; Nerve growth factor; PC12 cells (Lin, W.W. (852) 297)

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Methamphetamine; Dopamine; Serotonin; Rats; Caudate-putamen; Tyrosine hydroxylase; Glial fibrillary acid protein (Cappon, G.D. (863) 106)

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α-Synuclein; Dopamine neuron; Parkinson's disease; 6-Hydroxydopamine; Adenovirus (Zhou, W. (866) 33)

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Agmatine; Nitric oxide; Inducible nitric oxide synthase; Microglia; Culture (Abe, K. (872) 141)

Electrochemistry; Superfusion; Transporter; Nigrostriatal; Neuroprotection (Arvin, M. (872) 160)

Restraint-induced hypothermia; Restraint-induced neuroprotection; D-MDMA-induced neurotoxicity; Restraint; D-MDMA; Stress; Hypothermia; Neuroprotection (Johnson, E.A. (875) 107)

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Marine toxins; Potassium channel; *Helix aspersa*; *Bunodosoma granulifera*; BgK (Garateix, A. (864) 312)

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Acetylcholine; Nicotine; Receptor subunits; Receptor regulation (Torrão, A.S. (863) 249)

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Acetylcholinesterase inhibitor ENA713; Rat hippocampus; Alzheimer's disease (Trabace, L. (865) 268)

Cocaine; NGF; PC12 cells; Dopamine; D_1 receptors (Zachor, D.A. (869) 85)

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Corticosterone; Long-term potentiation; Paired-pulse facilitation; Synaptic plasticity; Synaptic transmission; Reverse-transcription-polymerase chain reaction; Nerve growth factor (NGF); Brain-derived neurotrophic factor (BDNF); Neurotrophic factor-3 (NT-3) (Zhou, J. (885) 182)

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Cerebral circulation; Opioid; Cerebral ischemia; Prostaglandin (Armstead, W.M. (859) 104)

Cerebral circulation; Excitatory amino acid; Opioid (Armstead, W.M. (868) 48)

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Cholineacetyltransferase; Cholinergic neurons; Septum; Development; Lead cholinotoxicity (Zhou, M. (866) 268)

Cocaine; PC12 cells; Neurotransmitters; Dopamine; D_1 receptors (Zachor, D.A. (869) 85)

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Excitotoxicity; Free radical; Mitochondria; Malonate; *N*-methyl-D-aspartate; Creatine (Malcon, C. (860) 195)

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Nicotinic
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Nicotinic acetylcholine receptor
Nicotine; Methyllycaconitine; Epibatidine; γ-Aminobutyric acid receptors; Muscimol; Long-term potentiation; Hippocampus (Fujii, S. (863) 259)

Nootropic agent; Long-lasting facilitation; Neurotransmission; Hippocampus (Nomura, T. (870) 157)

α4-Subunit; In vivo antisense knock-down; Antinociception; Nicotinic agonist; A-85380; Serotonergic neurons; Dorsal raphe nucleus (Bitner, R.S. (871) 66)

Nicotinic; Antinociception; Intrathecal; Paw withdrawal; Pain (Rueter, L.E. (872) 93)

Nicotinic agonist
Nicotinic acetylcholine receptor; α4-Subunit; In vivo antisense knock-down; Antinociception; A-85380; Serotonergic neurons; Dorsal raphe nucleus (Bitner, R.S. (871) 66)

Nicotinic receptor
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Honeybee; Cytochrome oxidase; Histochemistry; Imidacloprid (Armengaud, C. (859) 390)

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Neuroprotective drug; $^{22}Na^{+}$ influx; $^{45}Ca^{2+}$ influx; Catecholamine secretion; Adrenal chromaffin cell (Yokoo, H. (873) 149)

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Electrochemistry; Superfusion; Transporter; Neurotoxicity; Neuroprotection (Arvin, M. (872) 160)

ATP-sensitive potassium channel; Sulfonylurea; GABA; Striatum; Microdialysis; Bicuculline; Glipizide; K_{ATP} (Levin, B.E. (874) 158)

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Nitrergic neuron
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Cerebral ischemia; ARL 17477; Mongolian gerbil; Rat; Neuroprotection (O'Neill, M.J. (871) 234)

Agmatine; Inducible nitric oxide synthase; Microglia; Neurotoxicity; Culture (Abe, K. (872) 141)

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Angiotensin receptor; Bradykinin; Cerebral vessel; Converting enzyme inhibitor; Dogs (Feterik, K. (873) 75)

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Air jet; Swing rotation; Paraventricular nucleus; Norepinephrine; Blood pressure; Heart rate (Jin, Q.-H. (876) 205)

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Nitric oxide synthase; Vestibular compensation; Unilateral vestibular deafferentation; Unilateral labyrinthectomy (Paterson, S. (879) 148)

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N^{G}-nitro-L-arginine methyl ester; Ischemia; Retina; Rat (Ju, W.-K. (881) 231)

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Nitric oxide inhibitor
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Glial activation; Prostaglandin; Oxidative stress; Inflammatory cytokine; Lipopolysaccharide (Koppal, T. (867) 115)

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Aproteic diet; Catecholamine turnover; Hypothalamus (Ponzo, O.J. (871) 44)

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Glaucoma; Lateral geniculate nucleus; Neuron; Microglia; Rat (Wang, X. (878) 136)

Nitric oxide; Vestibular compensation; Unilateral vestibular deafferentation; Unilateral labyrinthectomy (Paterson, S. (879) 148

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Nitric oxide synthase I
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Nitric oxide synthase (NOS)
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NMDA
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nNOS protein expression
nNOS activity; Riluzole; Hippocampus; Anesthesia (Keita, H. (881) 237)

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NR2A
NMDA receptor; NR2B; NR1; Plasticity; Critical period (Cao, Z. (859) 26)

Visual deprivation; NR1; NR2B; NMDA receptors (Cao, Z. (868) 296)

NR2B
NMDA receptor; NR2A; NR1; Plasticity; Critical period (Cao, Z. (859) 26)

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NR4A2
In situ hybridization; Neuroleptics; Nuclear orphan receptor; NR4A1; NR4A3; Schizophrenia (Werme, M. (863) 112)

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Nucleotide
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Nucleus basalis of Meynert
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Airway; Airway sensory receptor; Airway submucosal gland; Airway blood flow; AMPA/kainate receptor; Autonomic control; Nucleus ambiguus; Parasympathetic nervous system (Haxhiu, M.A. (883) 77)

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***N*^{G}-Nitro-L-arginine**
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Blood–brain barrier; Influx; ob/ob; db/db (Maness, L.M. (873) 165)

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Mollusc; Long-term; Polycyclic; Snail; Interneuron (Elliott, C.J.H. (887) 63)

Octopus
Galanin; Invertebrate; 5-HT; Optic lobe; Peduncle complex (Suzuki, H. (865) 168)

Oculomotor
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Oculomotor behaviour
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Oculomotor nucleus
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GABA immunocytochemistry; Internuclear neuron; Abducens nucleus; Trochlear nucleus; Agnathan (Meléndez-Ferro, M. (855) 150)

Odorant
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Odorant-evoked oscillation
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6-OHDA
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cAMP-dependent phosphodiesterase; PDE4; Noradrenergic lesions; Rolipram; Western blotting, RT-PCR; Hypothalamus; Neostriatum; Cerebellum (Farooqui, S.M. (867) 52)

SKF 82958; L-DOPA; D1 receptor; Startle (Meloni, E.G. (879) 93)

8 ohdG
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Okadaic acid
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OLETF rats
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Olfaction
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Arousal; Behavior; Conditioning; Gamma waves; Pyriform cortex; Respiration (Vanderwolf, C.H. (877) 125)

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Olfactory bulb
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ZEN; ZnT3; Zinc; Synapse; Mouse (Jo, S.M. (865) 227)

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Aging; Depression; Hypothalamus–pituitary–adrenal axis; Monoamine oxidase (Slotkin, T.A. (882) 149)

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Olfactory deprivation
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Olfactory marker protein
OMP; Olfactory receptor neurons; Conduction velocity; Axon diameter; Mouse; Gene targeting; Knock-out (Griff, E.R. (866) 227

Olfactory nerve; Beta-tubulin; Protein gene product 9.5; NGF; BDNF (Yasuno, H. (887) 53)

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Olfactory marker protein; Beta-tubulin; Protein gene product 9.5; NGF; BDNF (Yasuno, H. (887) 53)

Olfactory receptor cell
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Olfactory receptor neurons
Olfactory marker protein; OMP; Conduction velocity; Axon diameter; Mouse; Gene targeting; Knock-out (Griff, E.R. (866) 227)

Olfactory system
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Oligodendrocyte
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Multiple sclerosis; Neurodegeneration; Footprint; Theiler's virus; Motor function (McGavern, D.B. (877) 396)

p38 MAP kinase; Immunohistochemistry; Central nervous system (Maruyama, M. (887) 350)

Oligodendrocyte progenitors
Oligodendrocytes; TNFα; Glial cells; Astrocytes; Microglia (Cammer, W. (864) 213)

Oligodendroglia
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Oligodendroglioma
Rat C6 glioblastoma; Heme oxygenase-1; Immunocytochemistry; RT–PCR (Deininger, M.H. (882) 1)

Cylcooxygenase-1; Cyclooxygenase-2; Immunocytochemistry (Deininger, M.H. (885) 111)

OMP
Olfactory marker protein; Olfactory receptor neurons; Conduction velocity; Axon diameter; Mouse; Gene targeting; Knock-out (Griff, E.R. (866) 227)

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Nucleus accumbens; Mesolimbic; Shell; Core; Morphine; Opioid; Striatum; Dopamine; Naloxone; Agonist; Antagonist; Hyperphagia; Palatability; Appetite; Food intake; Hedonic; Reward; Pleasure; Motivation; Addiction; Genes (fos); Transcription factors (Peciña, S. (863) 71)

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Nucleus accumbens; Mesolimbic; Shell; Core; Morphine; Opiate; Striatum; Dopamine; Naloxone; Agonist; Antagonist; Hyperphagia; Palatability; Appetite; Food intake; Hedonic; Reward; Pleasure; Motivation; Addiction; Genes (fos); Transcription factors (Peciña, S. (863) 71)

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κ-Opioid receptor
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Optic nerve transection
Ciliary neurotrophic factor; Retina; Rat (Chun, M.-H. (868) 358)

Optic tectum
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ORL1 receptor
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[^{3}H]nociceptin; Autoradiography; Rat brain (Florin, S. (880) 11)

Ornithine decarboxylase
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Osteoclast
Axon guidance molecule; Neurotrophin; Semaphorin-III; Netrin; Human; Osteoblast (Togari, A. (878) 204)

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Oxygen-enriched photoconversion
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Oxytocin receptor
Oxytocin; alpha2-Adrenoceptor; Autoradiography; Brain; Rat (Díaz-Cabiale, Z. (887) 421)

P

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Vertex-MLAEP; Pb; EEG; Anaesthesia; Rat; Propofol (Haberham, Z.L. (873) 287)

$p16^{INK4a}$
Alzheimer's disease; Cell cycle; Nitric oxide synthase (NOS); p21ras; Pyramidal neurons (Lüth, H.J. (852) 45)

P19 cells
Tau; Promoter activity; Neuronal differentiation (Heicklen-Klein, A. (874) 1)

P2 receptor
Microglia; Calcium signaling; Receptor modulation (Möller, T. (853) 49)

Adenosine triphosphate; Inhaled volatile anesthetics; Anesthetic mechanisms (Masaki, E. (864) 130)

p21
Cerebral infarction; Apoptosis; *N*-Methyl-*N*-nitrosourea; Azoxymethane; p53 (Park, S.-W. (855) 298)

p21ras
Alzheimer's disease; Cell cycle; Nitric oxide synthase (NOS); $p16^{INK4a}$; Pyramidal neurons (Lüth, H.J. (852) 45)

p38 MAP kinase
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p38 MAP kinase inhibitor
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p53
Cerebral infarction; Apoptosis; *N*-Methyl-*N*-nitrosourea; Azoxymethane; p21 (Park, S.-W. (855) 298)

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P53
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p53
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$p75^{NTR}$
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PACAP
PAC_1; Dorsal horn; Dorsal root ganglion; Gracile nuclei; Sciatic nerve transection; Ligand binding (Jongsma, H. (853) 186)

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Pacinian corpuscle
Mechanoreceptor; Mechanosensation; DEG/ENaC; Meissner corpuscle; Merkel cell–neurite complex (Drummond, H.A. (884) 1)

PAC_1
PACAP; Dorsal horn; Dorsal root ganglion; Gracile nuclei; Sciatic nerve transection; Ligand binding (Jongsma, H. (853) 186)

Pain
Substance P; Spinal cord; Diabetes; Formalin test; Neuropath (Calcutt, N.A. (856) 20)

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NMDA; AMPA; EAA; Spinal cord injury; Spinal hemisection; Allodynia (Bennett, A.D. (859) 72)

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Dental injury; Lateral solitary nucleus; Nucleus oralis; Nucleus caudalis; Trigeminal tract interstitial cell (Byers, M.R. (861) 191)

Gender; Inflammation; Paw withdrawal response; Freund's adjuvant (Ren, K. (865) 272)

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Cholera toxin; Pertussis toxin; Excitatory amino acids; Spinal cord (Chung, K.M. (867) 246)

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Nicotinic; Antinociception; Intrathecal; Paw withdrawal; Nicotinic acetylcholine receptor (Rueter, L.E. (872) 93)

Analgesia; Spinal cord; Norepinephrine; Nitric Oxide; Transporter (Li, X. (872) 301)

Pain perception
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Field potentials; Population spikes; Gating; Medial perforant path; Angular bundle; Hippocampus; Paired-pulse facilitation; Presynaptic inhibition; Postsynaptic inhibition; Multichannel recording (Canning, K.J. (863) 271)

Paired-pulse facilitation
Field potentials; Population spikes; Gating; Medial perforant path; Angular bundle; Hippocampus; Paired-pulse depression; Presynaptic inhibition; Postsynaptic inhibition; Multichannel recording (Canning, K.J. (863) 271)

Amyloid precursor protein; Alzheimer's Disease; Long-term potentiation; Hippocampus; Dentate gyrus (Giacchino, J. (876) 185)

Corticosterone; Long-term potentiation; Synaptic plasticity; Synaptic transmission; Reverse-transcription-polymerase chain reaction; Neurotrophin; Nerve growth factor (NGF); Brain-derived neurotrophic factor (BDNF); Neurotrophic factor-3 (NT-3) (Zhou, J. (885) 182)

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Water intake; Sickness behavior; Acute phase response; Taste reactivity test; Satiety; Endotoxin (Cross-Mellor, S.K. (861) 220)

Nucleus accumbens; Mesolimbic; Shell; Core; Morphine; Opiate; Opioid; Striatum; Dopamine; Naloxone; Agonist; Antagonist; Hyperphagia; Appetite; Food intake; Hedonic; Reward; Pleasure; Motivation; Addiction; Genes (fos); Transcription factors (Peciña, S. (863) 71)

Parabrachial nucleus; Nucleus of the solitary tract; Pedunculopontine tegmental nucleus; Fourth ventricle; Food intake; Microinjection; Midazolam; Benzodiazepine; GABA; Hedonic; Aversive; Taste; Pleasure; Reward (Söderpalm, A.H.V. (877) 288)

Panic disorder
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Parabrachial
Solitarius; Ambiguus; Ventrolateral medulla (Acuña-Goycolea, C. (883) 229)

Parabrachial nucleus
c-Fos; Immunohistochemistry; Visceral sense (Yamamoto, T. (866) 135)

c-Fos; Immunohistochemistry; Taste; Visceral sense; Area postrema (Yamamoto, T. (866) 144)

Nucleus of the solitary tract; Pedunculopontine tegmental nucleus; Fourth ventricle; Food intake; Microinjection; Midazolam; Benzodiazepine; GABA; Palatability; Hedonic; Aversive; Taste; Pleasure; Reward (Söderpalm, A.H.V. (877) 288)

Central nucleus of the amygdala; Insular cortex; Nucleus ambiguus; Nucleus tractus solitarius; Rostral ventrolateral medulla; Spinal cord (Saleh, M.C. (879) 105)

Conditioned taste aversion; Glutamate; Microdialysis; Rats (Bielavska, E. (887) 413)

Parachlorophenylalanine
Serotonin; Neurotrophic factor; S-100β; Neurofilament; Serotonin transporter (Ramos, A.J. (883) 1)

Paradoxical sleep
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Paraesthesia
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Parafascicular thalamic nucleus
Substantia nigra pars reticulata; Reticular thalamic nucleus; Orofacial movement; Rat (Tsumori, T. (858) 429)

Vestibular nuclei; Striatum; Motor circuits; Rat (Lai, H. (872) 208)

Parafascicularis
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Parahippocampal region
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Parallel pathways
Sensory cortex inputs to the rhinal cortices; Parahippocampal region; Learning and memory; Rat (Naber, P.A. (877) 298)

Parallel processing
Pain perception; Magnetoencephalogram; Primary somatosensory cortex (SI); Subdural recording; Human (Kanda, M. (853) 282)

Visual cortex; Cytochrome oxidase; Cortical module (Stewart, T.H. (881) 47)

Parapyramidal region
Triiodothyronine; Negative feedback; Raphe pallidus; Raphe obscurus (Yuan, P.-Q. (868) 22)

Parasagittal slice
Medial geniculate body; Inferior colliculus; Biocytin (Kuwabara, N. (878) 79)

Parasympathetic
Baroreflex; Cerebral blood flow; Hypertension; Nitric oxide; Rat (Talman, W.T. (873) 145)

PACAP; Afferent; Brainstem; Immunohistochemistry (Schoenfeld, L.K. (882) 180)

Parasympathetic nervous system
Airway; Airway sensory receptor; Airway submucosal gland; Airway blood flow; AMPA/kainate receptor; Autonomic control; Nucleus tractus solitarii; Nucleus ambiguus (Haxhiu, M.A. (883) 77)

Parasympathetic tone
Baroreflex; Excitatory amino acid receptor; Heart rate; Arterial pressure; AP-5; Methylatropine (Canesin, R.O. (852) 68)

Parathyroid hormone-related protein
Astrocyte; Epidermal growth factor; Tumor necrosis factor; Proliferation (Shankar, P.P. (868) 230)

Paraventricular nucleus
Corticotropin releasing hormone; Neuropeptide Y; Arcuate nucleus; Median eminence; NPY Y1 receptor (Li, C. (854) 122)

Human hypothalamus; Supraoptic nucleus; Tyrosine hydroxylase; Vasopressin mRNA; Syndrome of inappropriate antidiuretic hormone secretion (Panayotacopoulou, M.T. (855) 181)

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Median preoptic nucleus; Renal sympathetic nerve activity; Central hypertonic saline (Yasuda, Y. (867) 107)

Lipopolysaccharide; Norepinephrine; Corticosterone; Leptin (Francis, J. (867) 180

Prolactin; Feeding; Medial preoptic nucleus; Ventromedial nucleus; Rat (Sauvé, D. (868) 306)

Neuronal nitric oxide synthase; Lactation; Citrulline; Maternal; Behavior; Maternal aggression (Gammie, S.C. (870) 80)

Glucose; Liver; Pseudorabies virus; Suprachiasmatic nucleus; Sympathetic/parasympathetic (La Fleur, S.E. (871) 50)

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Air jet; Swing rotation; Norepinephrine; Nitric oxide; Blood pressure; Heart rate (Jin, Q.-H. (876) 205)

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Paraventricular nucleus region
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Paraventricular thalamus
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Paraventricular–ventromedial hypothalamic nuclei
Microdialysis; Monoamine–peptide interaction (Orosco, M. (872) 64)

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Dopamine; Noradrenaline; Monoamine oxidase; Locus coeruleus; Noradrenergic neuron (Kishimoto, Y. (859) 373)

Parkinson
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Parkinson's disease
Oxidative stress; Dopaminergic toxicity (Thomas, B. (852) 221)

Dopamine D_2 receptor; Dopamine uptake transporter; [^{3}H]Nemonapride; Striatonigral degeneration; [^{3}H]WIN 35428 (González, A.M. (852) 228)

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Salsolinol; 1-Methyl-4-phenylpyridinium (MPP^+); Neurotoxicity; Energy metabolism (Storch, A. (855) 67)

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N-Acetylcysteine; Aging; Thiol; Complex I; Mitochondria (Martínez Banaclocha, M. (859) 173)

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α-Synuclein; Dopamine neuron; 6-Hydroxydopamine; Neurotoxicity; Adenovirus (Zhou, W. (866) 33)

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L-buthionine-[*S,R*]-sulfoximine; Reaggregate culture; Tyrosine hydroxylase; DARPP 32; Glial fibrillary acidic protein (Nakamura, K. (873) 203)

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Torsion dystonia; Lewy bodies; α-synuclein (Shashidharan, P. (877) 379)

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Fibroblast growth factor; Dopamine; Substantia nigra (Shults, C.W. (883) 192)

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Alzheimer's disease; Calories; Heat shock protein; Oxidative stress; Mitochondria; Neurotrophic factor; Stroke (Mattson, M.P. (886) 47)

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Parvalbumin
Calcitonin gene-related peptide; Dorsal root ganglion; Immunohistochemistry; Mesencephalic trigeminal tract nucleus; Osteopontin; Trigeminal ganglion (Ichikawa, H. (863) 276)

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Acetylcholine; Calretinin; Calbindin; NMDA receptor (Araki, C.M. (869) 220

Septohippocampal projection; Acetylcholine; Myelination (Brauer, K. (878) 188)

Par-4
Alzheimer's disease; Choline acetyl-transferase; Nerve growth factor; Amyloid β peptide; Neurotransmitter (Guo, Q. (874) 221)

Passive avoidance
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Passive learning
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Hyperpolarization; Nocistatin; [Phe^{1}ψ(CH$_2$-NH)Gly^2]Nociceptin(1-13)NH$_2$ (Amano, T. (853) 269)

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Cole–Moore delay; Voltage gated K$^+$ channels; αT3-1 gonadotrope (Tiwari, J.K. (873) 218)

Olfactory receptor cell; Rod; Cone; Odorant; Newt (Kawai, F. (876) 180)

GABA; Glutamate; Chemoreceptor; Baroreceptor (Kawai, Y. (877) 374)

Diphenhydramine; Local anesthetic; Sodium channel; Dorsal root ganglion (Kim, Y.S. (881) 190)

Glutamate receptor; Purinoceptor; Rat (Zona, C. (882) 26

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K$^+$ channels; Ischemia; Hippocampus; Rat (Gong, L.-W. (884) 147)

Patch clamp electrophysiology
Primate; Retinal cell; Morphology; Voltage-gated ion channel (Han, Y. (875) 175)

Patch clamping
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X-Pathway
Posteromedial lateral suprasylvian; Plasticity; Visual cortex damage (Illig, K.R. (882) 241)

Pattern formation
Synapse specificity; Growth factor; Superior colliculus; Lateral geniculate nucleus; Visual cortex (Mize, R.R. (886) 15)

Patterned firing
Voltage-operated calcium channel; Dopamine; Neostriatum; Fast cyclic voltammetry; Brain slice (Phillips, P.E.M. (884) 139)

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Pavlovian conditioned response
Acoustic information processing; Population response; Binding problem; Sensorimotor control; Learned auditory discrimination (Woody, C.D. (868) 56)

Acoustic information processing; Population response; Binding problem; Sensorimotor control; Initiation of movement; Learned auditory discrimination; Auditory transmission (Zotova, E. (868) 66)

Pavlovian conditioning
Reinstatement; NMDA receptor; MK-801; Nitric oxide (Johnson, D.M. (857) 66)

Paw withdrawal
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Paw withdrawal response
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PC12 cell
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HMG-CoA reductase inhibitor; Simvastatin; Trk; Nerve growth factor; Tyrosine phosphorylation (Kumano, T. (859) 169)

Hydrogen peroxide; Nicotinic receptor; Ethanol; Neuroprotection; Oxidative stress (Li, Y. (861) 165)

Cocaine; NGF; Neurotransmitters; Dopamine; D$_1$ receptors (Zachor, D.A. (869) 85)

Zinc; Neuropeptide Y; Acetylcholinesterase; Dihydropyridine; Epilepsy; Feeding behavior (Schwartz, P.J. (877) 12)

Manganese; Integrin; Neurite outgrowth; Vitronectin receptor (Lein, P. (885) 220)

PCD in neuronal cell
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PCP
NMDA; Apoptosis; Caudate; Amphetamine; Corticosteroid (Griffiths, M.R. (855) 1)

RT-PCR
Adenylyl cyclase; cDNA; End organ; Scarpa's ganglion; Vestibular (Wackym, P.A. (859) 378)

Kappa opioid receptor; Mu opioid receptor; 'Binge' cocaine; Nucleus accumbens (Rosin, Å. (872) 102)

PCR subtraction
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Protein kinase; Cell death; Survival; Cerebellum (Yoshida, K. (873) 274)

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(+)-Pentazocine
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Pentraxin
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Pentylenetetrazol
Glutathione; L-Buthionine-[*S*,*R*]-sulfoximine; Convulsion; Mouse (Abe, K. (854) 235)

Calcium-activated potassium channel; Bursting activity; Iberiotoxin; Intracellular calcium; Epilepsy; El mouse (Jin, W. (860) 21)

Hypoxia preconditioning; Seizure; Free hydroxyl radical; Salicylate trapping (Rauca, C. (868) 147)

Adenosine; Inosine; Hypoxanthine; Xanthine; Microdialysis; Hippocampus; Epilepsy; Kainate; Bicuculline; Adenosine deaminase (Berman, R.F. (872) 44)

Hippocampal slice; Epileptiform activity; Long-term potentiation; Potentiation phenomenon; Primed-burst (Omrani, A. (877) 176)

Hypoxia preconditioning; Seizure; Fucose; Piracetam (Rauca, C. (880) 187)

Progesterone; Allopreganollone; Tetrahydroprogesterone; Non-genomic; Neurosteroid (Frye, C.A. (881) 98)

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Pentylenetetrazol susceptible QTL
SEZ gene; Gene mapping; Linkage analysis; Seizure; Epilepsy (Wakana, S. (857) 286

Pentylenetetrazole
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Spreading depression; Cerebral ischemia; Cerebral blood flow; Indomethacin; Epoxyeicostrienoic acid (EET) (Shimizu, K. (861) 316)

Peptide
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Peptide release
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Perforant pathway stimulation
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Periaqueductal gray
Non-opioid analgesic; Rostral ventromedial medulla; Endogenous opioid; Spinal nociceptive neuron (Vasquez, E. (854) 249)

Nerve lesion; Inflammation; Nociception; Dynorphin B; Nociceptin; Enkephalin; Descending pathway (Rosén, A. (857) 212)

Limbic cortex; Electrical stimulation; Hypothalamus; Autonomic nervous system (Fisk, G.D. (859) 83)

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Amygdala; Antinociception; Neurotensin; Opioid; Tail flick (Tershner, S.A. (865) 17)

Acoustic startle response; Anxiety; Conditioned fear; Conditioned inhibition; GABA; Glutamate (Fendt, M. (880) 1)

Central nucleus of the amygdala; Hypothalamus; Medial prefrontal cortex; Neuroanatomical tracer; Emotional stress (Paredes, J. (887) 157)

Periaqueductal grey
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Calcitonin gene-related peptide (CGRP); CGRP8-37; Hindpaw withdrawal latency; Sciatic nerve ligation (Xu, S.-L. (859) 358)

Neuropeptide Y (NPY); Antinociception; Hindpaw withdrawal latency (HWL); NPY28-36; Y1 receptor (Wang, J.-Z. (859) 361)

Pericellular basket
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Periglomerular cell
Accessory olfactory bulb; GABA (Goldmakher, G.V. (871) 7)

Perilymph
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Perinatal brain injury
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Perineurium
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Perineuronal net
Ankyrin; Chondroitin sulphate proteoglycan; Extracellular matrix; Neurocan; Phosphacan; WFA (Haunsø, A. (864) 142)

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***Period* homologue**
Circadian rhythm; Pinealectomy; Melatonin; Suprachiasmatic nucleus; Peripheral tissues (Oishi, K. (885) 298)

Periodontal ligament
Heme oxygenase; Carbon monoxide; Ruffini ending; Immunohistochemistry (Atsumi, Y. (855) 287)

Terminal Schwann cell; Ruffini ending; Nonspecific cholinesterase activity; Histochemistry; Rat (Hayashi, S. (858) 167)

Immunohistochemistry; Neurocalcin; S100; Tooth pulp; Trigeminal ganglion (Ichikawa, H. (864) 152)

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Peripheral arterial chemoreceptors
A_{2a}-adenosine receptor; Development; Carotid body; Gene expression (Gauda, E.B. (872) 1

Peripheral nerve injury
Nitric oxide; Melatonin; Hypoglossal nucleus; Histochemistry; Immunohistochemistry (Chang, H.-M. (873) 243)

Peripheral nerve regeneration
Artificial nerve conduit; Polyglycolic acid (PGA)–collagen tube; Laminin-coated collagen fiber; Long nerve defect; Electrophysiology (Matsumoto, K. (868) 315)

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Chicken; Somatostatin; Thyrotropin-releasing hormone; Brain distribution (Geris, K.L. (873) 306)

Circadian rhythm; *Period* homologue; Pinealectomy; Melatonin; Suprachiasmatic nucleus (Oishi, K. (885) 298)

Peripheral-type benzodiazepine receptor
Nefiracetam; Anticonvulsant; Ro 5-4864; EL mouse; Epilepsy (Shiotani, T. (859) 255)

Periventricular nucleus
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Permeability
Choroid plexus epithelium; Blood–cerebrospinal-fluid barrier; Transepithelial electrical resistance; Impedance analysis; cAMP (Wegener, J. (853) 115)

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Peroxisomal enzyme
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Peroxynitrite
Brain ischemia; Endothelium; Nitric oxide; Transgenic mice (Hirabayashi, H. (852) 319)

Methamphetamine; Selenium; Caudate nucleus; Neurotoxicity; Oxidative stress (Imam, S.Z. (855) 186)

FITC–dextran; Cerebral venules; Pial arterioles; Nitric oxide; SNAP; SIN-1; Tiron; Superoxide anion (Mayhan, W.G. (866) 101)

NO-related species; cGMP; Neuronal outgrowth; Retina (Cheung, W.S. (868) 1)

Huntington's disease; L-Arginine; Nitric oxide; Neurodegeneration; Cerebral blood flow; Diet (Deckel, A.W. (875) 187)

NOS; Hypoxia; Ca^{2+}-ATPase; Nuclei; Newborn brain (Gavini, G. (887) 385

Persistent sodium current
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Sodium channel; External potassium; Intracellular calcium; Seizure; Spreading depression (Somjen, G.G. (885) 102)

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PET
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PET imaging
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Petrosal ganglion
Acetylcholine; Action potential; Carotid body; Membrane potential; Primary sensory neuron (Varas, R. (882) 201)

Nodose ganglion; Nerve growth factor; Neurotrophin-3; Neurotrophin-4; Vasoactive intestinal peptide; Tyrosine hydroxylase (Helke, C.J. (884) 206)

pH
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Pharmacokinetics
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Field potentials; Population spikes; Gating; Medial perforant path; Angular bundle; Hippocampus; Paired-pulse facilitation; Paired-pulse depression; Postsynaptic inhibition; Multichannel recording (Canning, K.J. (863) 271)

Pre-emptive analgesia
Neuropathic pain; ORL1 receptor; Nociceptin; Spinal cord (Yamamoto, T. (871) 192)

Rat; Morphine; Ketoprofen; Artificial ureteral calculosis; Visceral pain (Giamberardino, M.A. (878) 148

Primary afferent
Olfactory nerve; Denervation; Ablation; Tyrosine hydroxylase (Byrd, C.A. (866) 92)

Metabotropic glutamate receptor; GABA; Ultrastructure; Spinal cord; Rat (Tao, Y.-X. (875) 138)

Primary brain endothelial cell culture
Biotin; Biocytin; Biotinidase deficiency; Blood–brain barrier (Baur, B. (858) 348)

Primary cell culture
Nitric oxide; Lipopolysaccharide; Neurons; Glia; Neurotoxicity; Cytokines (Jeohn, G.-H. (880) 173)

Primary cultured rat microglia
Methylmercury; Apoptosis; Caspase; Endosomal/lysosomal system (Nishioku, T. (871) 160)

Primary motor cortex
Premotor cortex; Visually guided jaw movement; Delay period; Single neuronal activity; Monkey (Yoshino, K. (852) 414)

Primary sensory neuron
Acetylcholine; Action potential; Carotid body; Membrane potential; Petrosal ganglion (Varas, R. (882) 201)

Primary somatosensory cortex
Pain perception; Magnetoencephalogram; Subdural recording; Parallel processing; Human (Kanda, M. (853) 282)

Magnetoencephalography (MEG); Median nerve; Oscillatory burst; 600 Hz wavelets; Lorazepam (Haueisen, J. (874) 10)

Primate
Nitric oxide; Calbindin; Somatostatin; Neuropeptide Y; GABA (Smiley, J.F. (863) 205)

Barrel; Visual cortex; Histochemistry; Marsupial; Rat (Franca, J.G. (864) 163)

Retinal cell; Morphology; Patch clamp electrophysiology; Voltage-gated ion channel (Han, Y. (875) 175)

Primed-burst
Hippocampal slice; Pentylenetetrazol; Epileptiform activity; Long-term potentiation; Potentiation phenomenon (Omrani, A. (877) 176)

Prion (PrP^C)
Neuronal degeneration; Syrian hamster; GABA; Shrunken dark neuron; Electron microscopy (Bouzamondo, E. (874) 210)

Procaspase-9
RNase protection; Two-hybrid; Dimerization; Cell death (Walke, D.W. (886) 73)

Procedural learning
Motor learning; Automaticity; Reaching movements (Ghilardi, M.-F. (871) 127

Proceptivity
Conscious rats; Dopamine; Single-unit recording; Lordosis reflex; Sexual motivation; Preoptic area; Solicitation (Kato, A. (862) 90)

Process outgrowth
GAP-43; RB3; SCG10; SCLIP; Stathmin; Development; Gene expression; Retinal ganglion cell; Growth cone; Microtubule (Nakazawa, T. (861) 399)

Processes
Golgi apparatus; Astrocytes (Gonatas, J.O. (855) 23)

Proenkephalin cDNA
Australian lungfish (Sollars, C. (874) 131)

Proenkephalin mRNA
Ultimobranchial gland; Chicken; In situ hybridization; RT–PCR analysis; Northern blot analysis (Kameda, Y. (852) 453)

Progenitor
Precursor; Stem cell; Transplantation; BDNF; Retinoic acid (Chow, S.Y. (874) 87)

Progesterone
Estrogen; Gamma aminobutyric acid; Hypothalamus; Oxytocin; Supraoptic nucleus (Amico, J.A. (857) 279)

Allopreganollone; Tetrahydroprogesterone; Non-genomic; Neurosteroid; Pentylenetetrazol (Frye, C.A. (881) 98)

Progressive multifocal leukocencephalopathy
Blood-brain barrier; Brain; Convection-enhanced delivery; Cytosine arabinoside; Drug delivery (Groothuis, D.R. (856) 281)

Prolactin
Serotonin; SSRI; Anxiety; Defecation; ACTH; Oxytocin; Renin (Zhang, Y. (855) 58)

Blood pressure; Cardiovascular regulation (Samson, W.K. (858) 19)

Corticosterone; Morphine; Lewis; Fischer 344; Stress (Baumann, M.H. (858) 320)

Prolactin-releasing peptide; Vasoactive intestinal peptide; Ether stress; Suckling (Watanobe, H. (865) 91)

Feeding; Paraventricular nucleus; Medial preoptic nucleus; Ventromedial nucleus; Rat (Sauvé, D. (868) 306)

Suckling stimulus; Inner zone of adenohypophysis; Cyclic AMP (Horváth, K.M. (873) 140)

Estrogen; Pituitary gland; Median eminence; Arcuate nucleus; Periventricular nucleus (DeMaria, J.E. (879) 139

Leptin; Acute hyperleptinemia; Chronic hyperleptinemia (Watanobe, H. (887) 426)

Prolactin antiserum
Hypoprolactinemia; Haloperidol; DOPAC; DA (Hentschel, K. (852) 28)

Prolactin-releasing peptide
Prolactin; Vasoactive intestinal peptide; Ether stress; Suckling (Watanobe, H. (865) 91)

Proliferation
Ensheathing cell; Glial growth factor 2; Ultrastructure; Tissue culture; Neuregulin (Chuah, M.I. (857) 265)

Parathyroid hormone-related protein; Astrocyte; Epidermal growth factor; Tumor necrosis factor (Shankar, P.P. (868) 230)

Promoter activity
Tau; P19 cells; Neuronal differentiation (Heicklen-Klein, A. (874) 1)

Proopiomelanocortin
Serotonin; Corticoid; Arcuate nucleus; Nucleus raphe dorsalis (Bonnet, C. (853) 323)

Propentofylline
Electroretinography (ERG); Theophylline; Vision; Xanthines (Andjus, R.K. (868) 176)

Propofol
Vertex-MLAEP; P1; Pb; EEG; Anaesthesia; Rat (Haberham, Z.L. (873) 287)

Propranolol
Arcuate neurons; Norepinephrine; Phentolamine; Prazosin; Yohimbine; Naloxone; Morphine; Glibenclamide; Cromakalim; Brain slice; Rat (Kang, Y.-M. (869) 146)

Prostaglandin
Interferon; Depression; Forced swimming test; Opioid (Makino, M. (852) 482)

Newborn; Cerebral circulation; Opioid; Cerebral ischemia (Armstead, W.M. (859) 104)

Glial activation; Oxidative stress; Inflammatory cytokine; Nitric oxide synthase; Lipopolysaccharide (Koppal, T. (867) 115)

Pain; Hyperalgesia; Isoprostaglandin; Eicosanoid (Junger, H. (867) 255)

Nitric oxide; Vasopressin; Angiotensin II; Losartan (Kadekaro, M. (877) 371)

Prostaglandin D_2
Arachidonic acid; Nicotinic receptor desensitization; Protein kinase C; Single channel current (Nojima, H. (852) 233)

Prostaglandin E_2
Angiotensin II; AT_1-receptor; Preoptic area; ACTH; Cardiovascular response (Watanabe, T. (852) 92

Prostanoids
Reactive oxygen species; Noise-induced hearing loss; 8-Isoprostane (Ohinata, Y. (878) 163)

Proteasome C2
Photothrombotic cortical infarction; Differential display of mRNA; Neuronal plasticity (Keyvani, K. (858) 386)

Protection
δ-opioid receptors; Excitotoxicity; Hypoxia; Glutamate; Neurons (Zhang, J. (885) 143)

G-Protein
K_{ATP} channel; Hypoxia; Metabotropic glutamate receptor; Cytoskeleton (Mironov, S.L. (853) 60)

Ca^{2+} channel; Inactivation; Metabotropic glutamate receptor; Hypoxia; Ryanodine receptor (Mironov, S.L. (869) 166)

G-protein α subunits
Feeding; Morphine; Morphine-6β-glucuronide; Antisense oligodeoxynucleotides (Silva, R.M. (876) 62)

Protein gene product 9.5
Calcitonin gene related peptide; Chronic constriction injury; Epidermal innervation; Nerve regeneration; Tumor necrosis factor (Lindenlaub, T. (866) 15)

Olfactory nerve; Olfactory marker protein; Beta-tubulin; NGF; BDNF (Yasuno, H. (887) 53)

Protein kinase
Classical conditioning; Eyeblink; Plasticity; Cerebellum; Interpositus nucleus (Chen, G. (856) 193)

PCR subtraction; Cell death; Survival; Cerebellum (Yoshida, K. (873) 274)

Extracellular signal-regulated kinase; Excitotoxicity; Glutamate receptor; Protein phosphatase; Cortical neuron (Jiang, Q. (887) 285)

Protein kinase A
Suprachiasmatic nuclei; Cyclic AMP; Circadian rhythm; Melatonin (Ferreyra, G.A. (858) 33)

Protein kinase C
Arachidonic acid; Prostaglandin D_2; Nicotinic receptor desensitization; Single channel current (Nojima, H. (852) 233)

Retinal ganglion cell; PMA; Natural cell death; Retina; Neuronal survival (Dos Santos, A.A. (853) 338)

Inhibitory avoidance training; Rat hippocampus; Memory formation (Paratcha, G. (855) 199

Hippocampal slice; Field EPSP; Neuromodulation; Adenosine; Dipyridamole (Narimatsu, E. (862) 284)

TNFα; Intercelluar adhesion molecule 1; Fluid phase endocytosis; Brain microvascular endothelial cell (Defazio, G. (863) 245)

Vestibular compensation; Ca^{2+}/calmodulin-dependent kinase II; Vestibular nuclei; Neural plasticity (Sansom, A.J. (882) 45)

Protein modification
Phosphorylation; Seizure; Signal transduction (Churn, S.B. (875) 66)

Protein oxidation
Kainic acid; Cycloxygenase; Lipoxygenase; Lipid peroxidation; Glutathione status; Neuronal loss; Hippocampus (Kim, H.-C. (874) 15)

Protein phosphatase
MAP1b; MAP2; Microtubule-binding; Protein phosphorylation; Phosphatase inhibitor (Gong, C.-X. (853) 299)

Extracellular signal-regulated kinase; Excitotoxicity; Glutamate receptor; Protein kinase; Cortical neuron (Jiang, Q. (887) 285)

Protein phosphorylation
Digitonin-permeabilization; Glial fibrillary acidic protein; GFAP; S100B protein (Karl, J. (853) 32)

MAP1b; MAP2; Protein phosphatase; Microtubule-binding; Phosphatase inhibitor (Gong, C.-X. (853) 299)

Protein synthesis
Anoxia/aglycemia; *N*-Methyl-D-Aspartate; Free radical; Vitamin E; *N*-Acetylcysteine (Monje, M.L. (857) 172)

Memory; Chick; Opioid receptor (Freeman, F.M. (864) 230)

Protein tyrosine kinase
Hypothalamus; Preoptic area; Estradiol; Adrenergic receptor; Cyclic AMP (Quesada, A. (861) 117)

G-proteins
Quisqualate; Inward currents; Neocortex; mGluRs (Chu, Z. (879) 88)

Proteolysis
GFAP; Astrocytes; Aging; Rhesus monkey (Sloane, J.A. (862) 1)

Protons
Hydrogen-ion concentration; Osmolarity; Microelectrodes; Behavior; Animal; Amphibians (Hamamoto, D.T. (862) 217)

Prozac
Antidepressant; Fluoxetine; Hippocampus; Dendritic spine; Plasticity (Norrholm, S.D. (883) 205

Pro-opiomelanocortin
β-Endorphin; Motoneuron; Nerve stimulation; Exercise (Hughes, S. (887) 191)

[Pro^{34}]PYY
PYY; Gastric protection; RX 77368; Ethanol; Gastric lesion (Kawakubo, K. (854) 30)

PS deprivation
Methodology; Modified multiple platform method; Polysomnography; Sleep rebound; Rat (Suchecki, D. (875) 14)

PSA-NCAM
Neuronal precursor; Nitrergic neuron; Nitric oxide synthase I; Olfactory bulb; Subventricular zone (Moreno-López, B. (869) 244)

PSD-95
Retinal degeneration; Retinitis pigmentosa (Blackmon, S.M. (885) 53)

Pseudorabies virus
Glucose; Liver; Paraventricular nucleus; Suprachiasmatic nucleus; Sympathetic/parasympathetic (La Fleur, S.E. (871) 50)

Cholera toxin; Fluorogold; Acetylcholine transferase; Spinal interneuron; Bladder afferent (Vera, P.L. (883) 107)

Psychiatric disorder
Stress; Homeostasis; Allostasis; Immune function; Adaptive plasticity; Hippocampus; Dendrite; Neurotransmitter; Glucocorticoid; Adrenalectomy; Adrenal steroid; Learning; Memory; Cognitive function (McEwen, B.S. (886) 172)

Psychological stressor
Airpuff startle; Fos-protein; Hemorrhage; Hypovolemia; Physical stressor (Thrivikraman, K.V. (870) 87)

Psychomotor stimulants
Ritalin; Methylphenidate; Motor activity; Behavioral sensitization; Circadian (Gaytan, O. (864) 24)

Psychosis
Stimulant drugs; Amphetamine; Behavioral sensitization; Dopamine D3 receptor; Nafadotride (Richtand, N.M. (867) 239)

Psychostimulant
Cocaine sensitization; Nitric oxide; Substance abuse; Drug addiction; Rat strain (Sircar, R. (857) 295)

Sensitization; Locomotor activity; GABA; Dopamine (Yang, P. (874) 216)

Ethanol; c-Fos; FosB (Ryabinin, A.E. (877) 251)

Sensitization; Locomotor activity; GABA; Dopamine (Yang, P. (887) 276

Psychotomimetic effect
Ketamine isomer; NMDA receptor antagonist; c-Fos; Posterior cingulate and retrosplenial cortices (Nishizawa, N. (857) 188)

Psychotropic drug
Rat brain; Human brain; Cytochrome *P*-450; Metabolism; Microsome (Voirol, P. (855) 235)

Pterygopalatine ganglion
Lacrimal gland; Otic ganglion; Vagal ganglia; Glossopharyngeal ganglia; Cholera toxin B subunit (Cheng, S.-B. (873) 160)

Puberty
Gonadotropin-releasing hormone; Luteinizing hormone; Fos; Opioid receptor; Naloxone (He, D. (858) 129)

Medial preoptic area; Epilepsy; GnRH pulse generator; Hypothalamus (Illig, A.M. (885) 192)

Punch sampling
Sodium; Potassium; Stroke; Brain edema; Flame photometry; Microanalysis; Water content; Electrolyte; Wet–dry (Hu, W. (868) 370)

Punished responding
Benzodiazepine; Alprazolam; $GABA_A$ receptor; Receptor subunit; Anxiety (Liu, M. (887) 23)

Pupillary reflex
Chronic hypoperfusion; Retina; Vision (Davidson, C.M. (859) 96)

Purine
Adenosine; ATP; Nucleotide; Hippocampus; Suramin; Nucleotidase (Nikbakht, M.-R. (860) 161)

Purinergic receptor
ATP; Exocytosis; Ca^{2+} channels; Autoinhibition (Harkins, A.B. (885) 231)

Purinoceptor
Glutamate receptor; Patch-clamp; Rat (Zona, C. (882) 26)

ATP; Fura-2 microfluorometry; Ca^{2+} channel; Nucleus accumbens (Sorimachi, M. (882) 217)

Purkinje cell
Cerebellum; Hereditary ataxia; Neuronal degeneration; Tremor (Clark, B.R. (858) 264)

Purkinje neuron
Bergmann glial cell; Glial cell; Glutamate transporter (Suárez, I. (859) 293)

Push–pull superfusion
Conditioned fear; Extracellular serotonin (5-HT); Locus coeruleus (LC); Arterial blood pressure; Motility; Heart rate; Telemetric recording (Kaehler, S.T. (859) 249

Putamen
Functional magnetic resonance imaging; Striatum; Motor control; Laterality; Extrapyramidal system; Inhibition (Scholz, V.H. (879) 204)

PVN
Fos; SON; Hypothalamus; Heart failure (Patel, K.P. (865) 27)

Pyramidal neuron
Alzheimer's disease; Cell cycle; Nitric oxide synthase (NOS); p21ras; $p16^{INK4a}$ (Lüth, H.J. (852) 45)

Autocrine; c-*erb*B2; Cerebral cortex; Glia; Local circuit neuron; Neurotrophin; White matter (Miller, M.W. (852) 355)

Hippocampal CA1 region; Nystatin-perforated patch; HVA Ca^{2+} channel; Cilnidipine (Murai, Y. (854) 6)

Morphology; Immunohistochemistry; Biocytin; Multipolar neuron (Gigg, J. (884) 35)

Pentraxin; Hippocampus; Entorhinal cortex; Liver; Cerebellum; Western blot; In situ hybridization; mRNA; Immunohistochemistry (Yasojima, K. (887) 80)

Pyridostigmine bromide
DFP; Organophosphate; Acetylcholinesterase; Cholinergic receptor; Nicotine; Spatial learning; Memory (Stone, J.D. (882) 9)

Pyriform cortex
Arousal; Behavior; Conditioning; Gamma waves; Olfaction; Respiration (Vanderwolf, C.H. (877) 125)

Pyrilamine
Epileptogenic activity; Diphenhydramine; Chlorpheniramine; Histidine; Physostigmine (Kamei, C. (887) 183)

Pyruvate
Glucose; Lactate; Glioma; Model (Darbin, O. (881) 121)

PYY
[Pro^{34}]PYY; Gastric protection; RX 77368; Ethanol; Gastric lesion (Kawakubo, K. (854) 30)

P_0 and PMP22 gene promoters
Glucocorticosteroids; Dexamethasone; Corticosterone; Schwann cells; Myelin (Désarnaud, F. (865) 12

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[^{3}H]QA binding
Metabotropic glutamate receptor; Group I agonists; GTP; Scatchard analysis (Hinoi, E. (881) 199)

Quantitative analysis
Long-term potentiation; Hippocampus; Synapsin I; Immunohistochemistry (Sato, K. (872) 219)

Quantitative autoradiography
Serotonin transporter site; Fetal alcohol exposure; Male; Female; Central nervous system (Zafar, H. (856) 184)

Quantitative in situ hybridization
Hypothalamic–pituitary–adrenal axis; Corticosterone feedback; Neuropeptide; CRH mRNA (Cournil, I. (877) 412)

Quinine
Presynaptic D_2 dopamine receptor; Evoked-[^{3}H]-ACh release; 7-OH-DPAT; 4-AP; TEA; Potassium channel-blocker (Sanz, A.G. (874) 116)

Quinolinic acid
Superoxide dismutase; Glutathione; Glutatione peroxidase; Corpus striatum (Rodríguez-Martínez, E. (858) 436)

Guanosine; GMP; Seizures; Glutamate; Anticonvulsant (Schmidt, A.P. (864) 40)

Quisqualate
Inward currents; Neocortex; mGluRs; G-proteins (Chu, Z. (879) 88)

R

Rabbit
Hippocampus; Cerebral ischemia; Microdialysis; Glutamate; Adenosine (Martinez-Tica, J.F. (872) 110)

Rabbit retina
$5\text{-}HT_{1A}$; $5\text{-}HT_3$; Rat retina; Rod pathway; Scotopic pathway (Pootanakit, K. (875) 152)

Rabies virus
Adult mouse; Sensory neuron; Neurotrophin; Image analysis; Dorsal root ganglia (Castellanos, J.E. (871) 120)

Raclopride
Feeding; Nucleus accumbens shell; μ Opioid receptor; δ_2 Opioid receptor; SCH23390; D_1 receptor; D_2 receptor; Dopamine (Ragnauth, A. (877) 65

Radial-arm maze
Non-spatial learning; Spatial learning; Mice; Ectopia; Sex difference (Hyde, L.A. (863) 151)

Radiation
Synapse; Schwann cell; Dendrite; Astrocyte (Sims, T.J. (882) 221)

Radical
Pramipexole; 6-Hydroxydopamine; Parkinson's disease; Salicylate assay (Ferger, B. (883) 216)

Radioimmunoassay
Anti-nociception; Calcitonin gene-related peptide; Calcitonin gene-related peptide-like immunoreactivity; Opioid peptide; Nucleus raphe magnus (Huang, Y.-H. (873) 54)

Depression; Limbic system; High-pressure liquid chromatography (Pekary, A.E. (884) 174)

Radioimmunocytochemistry
4-Hydroxy-2-nonenal; Streptozotocin; Glucocorticoid; Allostasis (Reagan, L.P. (862) 292)

Radio-telemetry
Conditioned fear; Blood pressure; Heart rate; Freezing; Exploratory behavior (Carrive, P. (858) 440)

Rainbow trout
Carbon dioxide; Crucian carp; Nitric oxide; Cerebral blood flow; N^{G}-Nitro-L-arginine (Söderström, V. (857) 207)

Ramp-and-hold stretch
Isolated muscle spindle; Chlorobutanol; Calcium; Electrogenic Na/K pump (Fischer, M. (854) 106)

Isolated muscle spindle; Impulse activity; External calcium concentration; Stretch sensitivity; Adaptation (Fischer, M. (875) 78)

Raphe
Electrophysiology; Respiration; Medulla; Autonomic; Membrane potential (Wang, W. (860) 119)

Tissue culture; Neuronal–glial interaction; MAP kinase; BDNF (Nishi, M. (868) 113)

Raphe obscurus
Triiodothyronine; Negative feedback; Raphe pallidus; Parapyramidal region (Yuan, P.-Q. (868) 22)

Raphe pallidus
Triiodothyronine; Negative feedback; Raphe obscurus; Parapyramidal region (Yuan, P.-Q. (868) 22)

Rapid eye movement sleep
Auditory stimulation; Homeostasis; Single REM sleep episode; REM sleep cluster (Amici, R. (868) 241

Slow-wave sleep; Spindle oscillation; Spatiotemporal synchrony; Synaptic plasticity; Memory consolidation; Computational model (Sejnowski, T.J. (886) 208)

Rapidly-adapting pulmonary stretch receptor
Respiration; Nucleus tractus solitarii; Lung deflation; Inspiratory neuron (Ezure, K. (883) 22)

Rasbora trilineata
Development; Cyprinidae; Olfactory deprivation; *Danio rerio*; *Danio aequipinnatus*; *Barbus tiineya* (Poling, K.R. (856) 135)

Rat
Acetylcholine; Muscarinic; Receptor; Dicyclomine; Traumatic brain injury (Jiang, Z.-W. (852) 37)

Olfactory bulb; Tissue culture; Neurotoxicity; Neurodegenerative disease; Alzheimer's disease (Horning, M.S. (852) 56)

Neurosteroid; Dose–response; Hippocampus; Memory; In vivo microdialysis (Darnaudéry, M. (852) 173)

Osteopontin; Ganglion cells; Axotomy; Retina (Ju, W.-K. (852) 217)

Apoptosis; Bag-1; Brain; Ischemia (Hayashi, T. (852) 496)

Cerebral ischemia, focal; Hemoglobin, allosteric modification (Mackensen, G.B. (853) 15)

Calcium entry blocker; Hippocampus; Spatial learning; Brain ischemia; Amnesia (Tamura, R. (853) 81)

Fluoxetine; Regional cerebral metabolic rate for glucose; Serotonin; Serotonin reuptake inhibitor; Stress (Freo, U. (854) 35)

Cerebellar cortex; Dopamine receptor; Receptor subtype; Immunohistochemistry (Barili, P. (854) 130)

Intracellular recording; Myocardial infarction; Slow hyperpolarisation; Vagus; Ventrolateral medulla oblongata (Zagon, A. (854) 172)

Calretinin; Suprachiasmatic; Mouse; Hamster; *Arvicanthis niloticus*; Circadian (Marshall, S.T. (854) 216)

Dentate gyrus; Corticosterone (Stienstra, C.M. (854) 230)

Thromboembolic stroke; tPA; Reperfusion; Hemorrhagic infarction; Polymorphonuclear leukocyte (Kano, T. (854) 245)

Neonate; Malnutrition; Cerebellum; Cyclin D1; Cip; Ink4 inhibitor; Neuron; Glia (Shambaugh III, G.E. (855) 11)

Nitric oxide; Experimental allergic encephalomyelitis; Nitric oxide inhibitor (Pozza, M. (855) 39)

Maternal deprivation; Serotonin receptor; Brainstem; Hippocampus; Gene expression (Vázquez, D.M. (855) 76)

Turtle; Olfactory bulb; Brain slice; Tissue culture; D2 receptor (Berkowicz, D.A. (855) 90)

Nitric oxide synthase; NADPH diaphorase; Aging; Immunohistochemistry; Axotomy; Gracile nucleus (Ma, S. (855) 124)

Trophic; Dopamine; Aging; Transplantation; 6-OHDA (Ling, Z.D. (856) 301)

C-*fos*; Hypoxia; Hypercapnia; Hypothalamus; Brainstem; Chemoreflex (Berquin, P. (857) 30)

ERK; Glutamate; Excitotoxicity; Apoptotic-like death; Cultured cortical neuron (Jiang, Q. (857) 71)

Spinal cord; Nitric oxide; cGMP; GABA; Acetylcholine; Colocalization (Vles, J.S.H. (857) 219)

Muscle sympathetic neurones; Skin sympathetic neurones; Sodium current; Fast Blue labelling (Rola, R. (857) 327)

Cannabinoid; Dynorphin A; Dynorphin B; Antinociception; Anandamide (Houser, S.J. (857) 337)

Microdialysis; Dopamine release; Iron neurotoxicity; Nomifensine; 1-Methyl-4-phenylpyridinium; Striatum (Santiago, M. (858) 26)

Neuropathic pain; Fentanyl; Excitatory amino acid; Kainate receptor (Ta, L.E. (858) 106)

Terminal Schwann cell; Ruffini ending; Periodontal ligament; Non-specific cholinesterase activity; Histochemistry (Hayashi, S. (858) 167)

Hippocampal formation; HPA axis; Schizophrenia; SIADH; Vasopressin (Nettles, K.W. (858) 181)

Glutamate receptor; Median eminence; Immunohistochemistry; Tanycyte; Astrocyte (Kawakami, S.-i. (858) 198)

Typical and atypical antipsychotic drug; Dopamine release; 5-HT_{1A} receptor; 5-HT_{2A} receptor; Nucleus accumbens and striatum; In vivo microdialysis (Ichikawa, J. (858) 252

Seizure; DNA damage; EEG; Hippocampus; Kainic acid (Henshall, D.C. (858) 290)

Substantia nigra pars reticulata; Parafascicular thalamic nucleus; Reticular thalamic nucleus; Orofacial movement (Tsumori, T. (858) 429)

Epilepsy; Anticonvulsants; 4-Aminopyridine; Entorhinal cortex (Brückner, C. (859) 15)

Soy; Phytoestrogens; Hypothalamus; Calbindin; Calretinin; Aromatase; 5α-Reductase; Western (Lephart, E.D. (859) 123)

Neuroinflammation; Spatial memory; Rough endoplasmic reticulum; Ultrastructural analysis (Hauss-Wegrzyniak, B. (859) 157)

Brain-derived neurotrophic factor; Ischemic tolerance; Cerebral ischemia; Cerebral infarction; Temporary focal ischemia (Yanamoto, H. (859) 240)

GPE; Parkinson's disease; Tyrosine-hydroxylase; Neuroprotection (Guan, J. (859) 286)

Bombesin; In vivo microdialysis; Audiogenic seizure; Mouse (Andrews, N. (859) 386)

Tardive dyskinesia; Vacuous chewing movement; In situ hybridization; Stereology; Densitometry (Petersen, R. (859) 394)

B/K protein; Ganglion cell; Amacrine cell; Müller cell; Retina (Kwon, O.-J. (860) 178)

Prefrontal cortex; Hippocampus; Operant learning; Lever-press; Lidocaine (Izaki, Y. (860) 199)

Interleukin-1 beta (IL-1β); Hippocampus; Glia; Interleukin-1 receptor antagonist (IL-1ra); Alpha melanocyte stimulating hormone (αMSH); Intracerebroventricular (i.c.v.) (Pugh, C.R. (861) 8)

Brain injury; Fluid percussion; Hippocampus; LTP (Sanders, M.J. (861) 69)

Acute stress; Sleep architecture; HPA axis; Polysomnography (Palma, B.D. (861) 97)

Tail-flick test; Hargreaves test; von Frey test; Touch-evoked agitation test; Microglia; Astrocyte; Spinal cord; Fluorocitrate; CNI-1493; p38 MAP kinase inhibitor (Milligan, E.D. (861) 105)

Synaptic plasticity; Memory; Hippocampus; Limbic system (Jas, J. (861) 186)

Traumatic brain injury; Diazepam; Bicuculline; Cognition, γ-aminobutyric acid (O'Dell, D.M. (861) 325)

$GABA_A$; Zolpidem; Ro 15-1788; Autoradiography (Chadha, A. (862) 280

Kallikrein; Brain; Nucleus; Immunohistochemistry (Iwadate, H. (863) 87)

Animal studies; Cerebral ischemia; Focal; Behavior; Rotarod (Zausinger, S. (863) 94)

Methamphetamine; Dopamine; Serotonin; Neurotoxicity; Caudate-putamen; Tyrosine hydroxylase; Glial fibrillary acid protein (Cappon, G.D. (863) 106)

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Retinal degeneration
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Reverse transcription–polymerase chain reaction
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IL-6; Schwann cell; FGF-2; Rat (Grothe, C. (885) 172)

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SCN
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18-Methoxycoronaridine (18-MC); Cocaine; Locomotor activity; Dopamine; Drug addiction (Szumlinski, K.K. (871) 245)

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SKF 82958; D1 receptor; Startle; 6-OHDA (Meloni, E.G. (879) 93)

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Sleep spindle
Polysomnography; Spectral analysis; Sleep slow wave; Initiation and termination of non-REM sleep episode (Tagaya, H. (861) 233)

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Social investigation
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Loop diuretic; Visceral neuraxis; Autonomic control; Sympathetic nervous system; Immedi-

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Stimulus encoding
Reticular formation; Spatial summation; Spinal cord; Descending control; Stimulus area (Gall, O. (873) 131)

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Stress tolerance
Brain ischemia; Astrogliosis; Heat shock proteins; Stroke; Stress stimuli (Currie, R.W. (863) 169)

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Subtype 1
Neurotensin receptor; Atypical neuroleptics; Catalepsy; Peptide analogs (Cusack, B. (856) 48)

α4-Subunit
Nicotinic acetylcholine receptor; In vivo antisense knock-down; Antinociception; Nicotinic agonist; A-85380; Serotonergic neurons; Dorsal raphe nucleus (Bitner, R.S. (871) 66)

Subventricular zone
Neuronal precursor; Nitrergic neuron; Nitric oxide synthase I; Olfactory bulb; PSA-NCAM (Moreno-López, B. (869) 244)

Suckling
Prolactin; Prolactin-releasing peptide; Vasoactive intestinal peptide; Ether stress (Watanobe, H. (865) 91)

Suckling stimulus
Inner zone of adenohypophysis; Prolactin; Cyclic AMP (Horváth, K.M. (873) 140)

Sulfhydryl
N-Ethylmaleimide; Alkylation; Tetrodotoxin-sensitive; Tetrodotoxin-resistant; Sodium channel; Dorsal root ganglion (Song, J.-H. (855) 267)

Sulfhydryl oxidation
Thimerosal; Tetrodotoxin-sensitive; Tetrodotoxin-resistant; Sodium channel; Dorsal root ganglion (Song, J.-H. (864) 105

Sulfonylurea
ATP-sensitive potassium channel; GABA; Striatum; Microdialysis; Bicuculline; Glipizide; Nigrostriatal; K_{ATP} (Levin, B.E. (874) 158)

Sumatripan
Migraine; Cortical spreading depression; Free radical (Read, S.J. (870) 44)

Summation
Brain-stimulation reward; Collision test; Axonal collision; Transynaptic collision; Lateral preoptic area; Ventral tegmental area (Bielajew, C. (881) 112)

Superfusion
Electrochemistry; Transporter; Neurotoxicity; Nigrostriatal; Neuroprotection (Arvin, M. (872) 160)

Superior colliculus
Cannabinoid; CB1 receptor; Circling; Basal ganglia; Dopamine (Sañudo-Peña, M.C. (853) 207)

Circadian rhythm; Phase shift; Entrainment; Non-photic; Morphine; Opioid; Fentanyl; μ Receptor (Meijer, J.H. (868) 135)

Pattern formation; Synapse specificity; Growth factor; Lateral geniculate nucleus; Visual cortex (Mize, R.R. (886) 15)

Superoxide
Kainic acid; Neurodegeneration; Hippocampus; Cu,Zn-superoxide dismutase; Free radical; Astrocyte; Microglia (Kim, H.-C. (853) 215)

Microglia; Naloxone; Non-heme iron–nitrosyl complex; Electron paramagnetic resonance (Chang, R.C.C. (854) 224)

Superoxide anion
FITC–dextran; Cerebral venules; Pial arterioles; Nitric oxide; SNAP; SIN-1; Tiron; Peroxynitrite (Mayhan, W.G. (866) 101)

Superoxide dismutase
Quinolinic acid; Glutathione; Glutatione peroxidase; Corpus striatum (Rodríguez-Martínez, E. (858) 436)

Catalase; Dopaminergic neurons; Oxidative stress; Parkinson's disease; Reactive oxygen species (Pong, K. (881) 182)

Supplementary eye fields
Electrical stimulation; Oculomotor behaviour; Learning; Rhesus monkeys (Tehovnik, E.J. (877) 101)

Suprachiasmatic
Calretinin; Mouse; Rat; Hamster; *Arvicanthis niloticus*; Circadian (Marshall, S.T. (854) 216

Suprachiasmatic nucleus
Aging; 5-HT_{1B} receptors; Serotonin transporter; Circadian rhythms; Hamster (Duncan, M.J. (856) 213)

Cyclic AMP; Protein kinase A; Circadian rhythm; Melatonin (Ferreyra, G.A. (858) 33)

Pineal; Melatonin; Circadian rhythm; Retinohypothalamic tract; 5-HT_{1B} receptor (Rea, M.A. (858) 424)

Circadian rhythm; Photic synchronization; Light-entrainable pacemaker; Clock gene; Locomotor behavior (Challet, E. (859) 398)

5-HT receptor; Circadian rhythm; Synaptic inhibition; Serotonin; GABA; Glutamate (Jiang, Z.-G. (866) 247)

Serotonin receptor; Immunohistochemistry (Oliver, K.R. (867) 131)

Serotonin; 5-HT_{1A} receptor; Circadian rhythm; Intergeniculate leaflet; Dorsal raphe nucleus; Median raphe nucleus; Immunohistochemistry (Duncan, M.J. (869) 178)

Immunocytochemistry; Immediate early gene; Intergeniculate leaflet; Circadian rhythm (Edelstein, K. (870) 54)

Glucose; Liver; Paraventricular nucleus; Pseudorabies virus; Sympathetic/parasympathetic (La Fleur, S.E. (871) 50)

Biological rhythm; Enkephalin (Byku, M. (873) 189)

Anterograde neuronal tracing; Cholera toxin B subunit; Hypothalamus; Paraventricular nucleus; Retina; Supraoptic nucleus; Locus ceruleus; *Tupaia belangeri;* Vagal nuclei (Reuss, S. (874) 66)

Paraventicular thalamus; Vasopressin; Sleep; Diurnal; Nocturnal; Circadian rhythm (Novak, C.M. (874) 147)

Nonphotic; Photic; Neuropeptide Y; Activity rhythms; Free-running; Geniculohypothalamic tract; Social; Diurnal (Goel, N. (877) 306)

Vasoactive intestinal peptide; Vasopressin; Circadian rhythm; Phase-shift; Glutamate (Watanabe, K. (877) 361)

TGR(mRen2)27; c-fos mRNA; Heart rate; Blood pressure; Entrainment (Lemmer, B. (883) 250)

Circadian rhythm; *Period* homologue; Pinealectomy; Melatonin; Peripheral tissues (Oishi, K. (885) 298)

Supraoptic nucleus; Paraventricular nucleus; Circadian rhythm; Photoperiod; Vasopressin mRNA (Jáč, M. (887) 472)

Supraoptic nucleus
Paraventricular nucleus of the hypothalamus; Central nucleus of the amygdala; Nucleus tractus solitarius; Area postrema (Wang, L. (855) 47)

Human hypothalamus; Paraventricular nucleus; Tyrosine hydroxylase; Vasopressin mRNA; Syndrome of inappropriate antidiuretic hormone secretion (Panayotacopoulou, M.T. (855) 181)

Estrogen; Gamma aminobutyric acid; Hypothalamus; Oxytocin; Progesterone (Amico, J.A. (857) 279)

Anterograde neuronal tracing; Cholera toxin B subunit; Hypothalamus; Paraventricular nucleus; Retina; Locus ceruleus; *Tupaia belangeri;* Vagal nuclei; Suprachiasmatic nucleus (Reuss, S. (874) 66)

Ouabain-induced hypertension; Fos-like immunoreactivity; Locus ceruleus (Veerasingham, S.J. (876) 17)

Suprachiasmatic nucleus; Paraventricular nucleus; Circadian rhythm; Photoperiod; Vasopressin mRNA (Jáč, M. (887) 472)

Suramin
Purine; Adenosine; ATP; Nucleotide; Hippocampus; Nucleotidase (Nikbakht, M.-R. (860) 161)

Surgical technique
In vivo microdialysis; Visual cortex; Awake cat; Amino acid; HPLC–ED (Qu, Y. (866) 116)

Survival
Cathepsin; PCR subtraction; Death; Reactive oxygen (Nishio, C. (873) 252)

Protein kinase; PCR subtraction; Cell death; Cerebellum (Yoshida, K. (873) 274)

Sustained facilitation of neurotransmission
Memory enhancing agent; FK960; Hippocampus (Matsuyama, S. (857) 317)

SV129 mouse
C57BL/6 mouse; Oxygen free radical; Preconditioning; Stroke (Prass, K. (871) 146)

Swing rotation
Air jet; Paraventricular nucleus; Norepinephrine; Nitric oxide; Blood pressure; Heart rate (Jin, Q.-H. (876) 205)

Swiss–Webster
Ethanol; U-99194A; Conditioned place preference; Mice (Boyce, J.M. (880) 202

SH-SY5Y
Sigma receptor; NPY; Dopamine; (+)-Pentazocine (Ault, D.T. (877) 354)

SH-SY5Y cells
DPDPE; Intracellular Ca^{2+} concentration; Stimulatory effects of opioid (Chen, L. (882) 256)

Sympathetic activity
Ventrolateral medulla; Angiotensin II; Angiotensin-(1–7); Central cardiovascular neuron; Arterial pressure (Potts, P.D. (877) 58)

Body temperature; Oxygen consumption; Rat (Monda, M. (887) 344)

Sympathetic nerve
Leptin; Corticotropin-releasing hormone; Urocortin; Lymphocyte (Okamoto, S. (855) 192)

Sympathetic nerve discharge
Correlation; Lateral tegmental field neuron; 8- to 13-Hz slow wave (Dempesy, C.W. (852) 213)

Sympathetic nervous system
Loop diuretic; Visceral neuraxis; Autonomic control; Immediate-early gene expression; Spinal cord dorsal horn (Fitch, G.K. (861) 363)

Loop diuretic; Visceral neuraxis; Autonomic control; Immediate–early gene expression; Spinal cord dorsal horn (Fitch, G.K. (861) 377)

Neuronal sprouting; Pericellular basket; CGRP immunohistochemistry (Shafer, A.J. (864) 252)

Sympathetic neuron
Depolarization; Phosphatidylinositol 3-kinase; Akt; Ca^{2+}/calmodulin-dependent protein kinase II (Ikegami, K. (866) 218)

Sympathetic preganglionic neurons
Ventrolateral medulla; Cardiovascular system; Adrenal medulla; Fos protein; Cholera toxin B subunit (Leman, S. (854) 189)

Sympathetic/parasympathetic
Glucose; Liver; Paraventricular nucleus; Pseudorabies virus; Suprachiasmatic nucleus (La Fleur, S.E. (871) 50)

Sympathoinhibition
Phenylbiguanide; Epinephrine; Bezold-Jarisch reflex; Intermediolateral cell column; Rostral ventrolateral medulla (Cao, W.-H. (887) 46)

Synapse
Down Syndrome; Ts65Dn mouse; Temporal cortex; Morphometry; Memory (Kurt, M.A. (858) 191)

Glutamate; Receptors; Calpain; Plasticity (Lu, X. (863) 143

ZEN; ZnT3; Zinc; Olfactory bulb; Mouse (Jo, S.M. (865) 227)

Subiculum; Sexual dimorphism; Stereology; Golgi; Rat (Andrade, J.P. (875) 125)

Serotonin; Neurotransmission; Crayfish; Neuromuscular junction (Southard, R.C. (871) 16)

Nerve terminal; Stereology; Numerical integration; Algebraic system (Kim, S. (877) 209)

Lateral cerebellar nucleus; Striatum; Central lateral nucleus of thalamus; Axonal transport; Rat (Ichinohe, N. (880) 191)

Schwann cell; Dendrite; Astrocyte; Radiation (Sims, T.J. (882) 221)

Long-term potentiation; Long-term depression; Interferon-α; Hippocampus; Electrophysiology (Mendoza-Fernández, V. (885) 14)

Synapse loss
Electron microscopy; Synaptic terminal; Aging; Cortical layer (Brunso-Bechtold, J.K. (872) 125)

Synapse specificity
Pattern formation; Growth factor; Superior colliculus; Lateral geniculate nucleus; Visual cortex (Mize, R.R. (886) 15)

Synapsin
Spectrin; Synaptic vesicle; Synaptic transmission (Zimmer, W.E. (881) 18)

Synapsin I
Long-term potentiation; Hippocampus; Immunohistochemistry; Quantitative analysis (Sato, K. (872) 219)

Synaptic activity
Dark-rearing; Microvascularization; Blood vessel; Striatal cortex; Computer assisted morphometry (Argandoña, E.G. (855) 137)

Synaptic competition
Sensory deprivation; Naris closure; Olfactory cortex; Cortical plasticity; Golgi stain; Timm stain; Unilateral olfactory deprivation (Wilson, D.A. (853) 317)

Synaptic connections
Octopamine; Snail; Pharmacology; Feeding system; *Lymnaea stagnalis* (Vehovszky, Á. (867) 188)

Synaptic inhibition
Suprachiasmatic nucleus; 5-HT receptor; Circadian rhythm; Serotonin; GABA; Glutamate (Jiang, Z.-G. (866) 247)

Synaptic membrane
Calcium channel; Toxin; Brain; Glial cell; Choroid plexus; Neuron; Mapacalcine; Binding; Autoradiography; Receptor; Mapping (Mourre, C. (858) 136

Synaptic plasticity
Astroglia; Glutamine synthetase; Mouse; Olfactory bulb (Okere, C.O. (857) 308)

Horizontal cell; Stimulus pattern; Competition (Hu, J.-F. (857) 321)

Memory; Hippocampus; Limbic system; Rat (Jas, J. (861) 186)

Docosahexaenoic acid; Fatty acid; Hippocampus; Learning and memory; Neurotransmission (Itokazu, N. (862) 211)

Trigemino-hypoglossal–facial reflexes; Cutaneous and mucosal afferents; Hypoglossal–facial anastomosis; Man (Tankéré, F. (864) 87)

Hippocampus; Long-term potentiation; NMDA; AMPA; Local circuits (Bayazitov, I. (866) 188)

Hippocampus; Entorhinal cortex; Brain slices; Long-term potentiation; Long-term depression; Prenatal morphine exposure; Seizure susceptibility (Velíšek, L. (869) 186)

Memory; Environmental enrichment; NMDA receptor; Long-term potentiation (Foster, T.C. (871) 39)

Development; Heavy metal; Learning; Memory; Neurotoxicity (Zaiser, A.E. (876) 201)

Calcium-binding protein; Iba1; Microglia; Mouse; Olfactory bulb (Okere, C.O. (877) 85)

Corticosterone; Long-term potentiation; Paired-pulse facilitation; Synaptic transmission; Reverse-transcription-polymerase chain reaction; Neurotrophin; Nerve growth factor (NGF); Brain-derived neurotrophic factor (BDNF); Neurotrophic factor-3 (NT-3) (Zhou, J. (885) 182)

Slow-wave sleep; Spindle oscillation; Spatiotemporal synchrony; Memory consolidation; Computational model; Rapid eye movement sleep (Sejnowski, T.J. (886) 208)

Synaptic protein
Cranin; Dystroglycan; Laminin; Synaptosome; Subcellular fractionation (Smalheiser, N.R. (887) 469)

Synaptic terminal
Electron microscopy; Aging; Cortical layer; Synapse loss (Brunso-Bechtold, J.K. (872) 125)

Synaptic transmission
Opioid receptors; Opiates; Bicuculline; $GABA_A$ receptors; Convulsions; Mice (Yajima, Y. (862) 120)

Hippocampal slice; Hemoglobin; CA1 neuron;

Head injuries; Cerebrovascular diseases (Yip, S. (864) 1)

Motor evoked potential; Focal cerebral ischemia; Ischemic penumbra; Transcranial magnetic stimulation (Bolay, H. (873) 26)

Optical recording; Voltage-sensitive dye; Cochlear nucleus; Vestibular nucleus; Mouse; Brainstem (Yang, S.-M. (877) 95)

Spectrin; Synapsin; Synaptic vesicle (Zimmer, W.E. (881) 18)

Corticosterone; Long-term potentiation; Paired-pulse facilitation; Synaptic plasticity; Reverse-transcription-polymerase chain reaction; Neurotrophin; Nerve growth factor (NGF); Brain-derived neurotrophic factor (BDNF); Neurotrophic factor-3 (NT-3) (Zhou, J. (885) 182)

Synaptic vesicle
Spectrin; Synapsin; Synaptic transmission (Zimmer, W.E. (881) 18)

Synaptic vesicle docking
Hippocampal neurons; Antibody (Sikorski, A.F. (852) 161)

Synaptically-released zinc excitotoxicity
Hippocampal slice; Autometallography (AMG); Zinc staining; Temperature; Vesicular zinc (Suh, S.W. (879) 7)

Synaptosomal membrane
3-Nitropropionic acid; Huntington's disease; Oxidative stress; Spin labeling (La Fontaine, M.A. (858) 356)

Synaptosome
Presynaptic D_2 dopamine receptor; Spontaneous [^{3}H]ACh efflux; 7-OH-DPAT; Vesamicol; Striatum (Sanz, A.G. (854) 42)

Gabapentin; Fura-PE3; Calcium influx; Neocortex; Rat (Meder, W.P. (875) 157)

Cranin; Dystroglycan; Laminin; Synaptic protein; Subcellular fractionation (Smalheiser, N.R. (887) 469)

Synchronized activity
GABA; Intracellular Cl^- (Nakanishi, K. (863) 192)

Syndrome of inappropriate antidiuretic hormone secretion
Human hypothalamus; Paraventricular nucleus; Supraoptic nucleus; Tyrosine hydroxylase; Vasopressin mRNA (Panayotacopoulou, M.T. (855) 181)

Synovial cells
Met-enk; Ankle; Mycobacteria; Arthritis (Elhassan, A.M. (879) 23

α-Synuclein
Amyloid precursor; Transgenic; Alzheimer's; Parkinson's; Lewy (Yang, F. (853) 381)

Dopamine neuron; Parkinson's disease; 6-Hydroxydopamine; Neurotoxicity; Adenovirus (Zhou, W. (866) 33)

Torsion dystonia; Lewy bodies; Parkinson's disease (Shashidharan, P. (877) 379)

Syrian hamster
Prion (PrP^C); Neuronal degeneration; GABA; Shrunken dark neuron; Electron microscopy (Bouzamondo, E. (874) 210)

System L
L-DOPA; Blood–brain barrier; 4F2hc; LAT1 (Kageyama, T. (879) 115)

Systemic hypotension
Ischemic preconditioning; Cerebral hypoperfusion; Energy metabolism (Plaschke, K. (858) 363)

SYSY neuroblastoma
Mitochondrial permeability transition; Oxidative stress; Bcl-2 proteins; C6 glioma; Dinitrobenzene (Tjalkens, R.B. (874) 165)

T

Tachyphylaxis
Bezold–Jarisch reflex; 5-HT_3 receptors; Rat (Whalen, E.J. (873) 302)

Tactile neuron
Patch clamp; Mechanosensitive neuron; Somatosensory neuron; Dorsal root ganglion (Takahashi, A. (869) 225)

Tail flick
Spinal cord; c-*fos*; *Egr-1*; Analgesia; Vaginocervical stimulation (Lee, J.W. (861) 26)

Amygdala; Antinociception; Neurotensin; Opioid; Periaqueductal gray (Tershner, S.A. (865) 17)

Tail flick latency
Endomorphin; Mu-opioid receptor; c-FOS; Immunocytochemistry; Intracerebroventricular (Jiang, Y. (873) 291)

Tail-flick test
Rat; Hargreaves test; von Frey test; Touch-evoked agitation test; Microglia; Astrocyte; Spinal cord; Fluorocitrate; CNI-1493; p38 MAP kinase inhibitor (Milligan, E.D. (861) 105)

Talipexole
Bcl-2; Pramipexole; Regeneration (Takata, K. (872) 236

Tanycyte
Glutamate receptor; Median eminence; Immunohistochemistry; Astrocyte; Rats (Kawakami, S.-i. (858) 198)

Type 2 iodothyronine deiodinase; DARPP-32; CREB (Fekete, C. (862) 154)

Tardive dyskinesia
Vacuous chewing movement; In situ hybridization; Stereology; Densitometry; Rat (Petersen, R. (859) 394)

Targeting
CNS cell line; CAD-R1 cells; Voltage-dependent sodium currents; Sodium channel proteins; Insulin (Castañeda-Castellanos, D.R. (866) 281)

Taste
Nucleus of the solitary tract; γ-Aminobutyric acid; Gustation; Bicuculline methiodide; Insular cortex (Smith, D.V. (858) 408)

c-Fos; Immunohistochemistry; Visceral sense; Area postrema; Nucleus tractus solitarius; Parabrachial nucleus (Yamamoto, T. (866) 144)

Dissociated neurons; Facial nerve; Mechanoreception; Retrograde labelling; Whole-cell recording (King, M.S. (866) 237)

Decerebrate; Caudal brainstem; Taste reactivity; Food deprivation; Ingestion; Electromyography (Kaplan, J.M. (870) 102)

Parabrachial nucleus; Nucleus of the solitary tract; Pedunculopontine tegmental nucleus; Fourth ventricle; Food intake; Microinjection; Midazolam; Benzodiazepine; GABA; Palatability; Hedonic; Aversive; Pleasure; Reward (Söderpalm, A.H.V. (877) 288)

Taste aversion
Learning; Context; Nucleus of the solitary tract (NTS); Pontine parabrachial nucleus (PBN); LiCl; c-Fos (Swank, M.W. (862) 138)

Taste aversion learning
Lateral parabrachial nucleus; Forebrain regulation; Methylscopolamine; Visceral processing (Cubero, I. (871) 113)

Taste reactivity
Decerebrate; Caudal brainstem; Food deprivation; Ingestion; Taste; Electromyography (Kaplan, J.M. (870) 102)

Taste reactivity test
Palatability; Water intake; Sickness behavior; Acute phase response; Satiety; Endotoxin (Cross-Mellor, S.K. (861) 220)

Taste responses after adaptation
Gustatory; Electrophysiology (Di Lorenzo, P.M. (852) 383

Taste-guided behavior
Insular Cortex; Electrical stimulation; Incentive salience attribution; Hedonic processing (Cubero, I. (872) 134)

Tau
FTDP-17; Microtubule assembly; Mutation (DeTure, M. (853) 5)

Neurofibrillary tangles; Granulovacuolar degeneration; Heart; kidney; Liver; Spleen (Yasojima, K. (865) 116)

Promoter activity; P19 cells; Neuronal differentiation (Heicklen-Klein, A. (874) 1)

Tau protein
Alzheimer's disease; Formic acid; Paired helical filament; Phosphatase (Gordon-Krajcer, W. (856) 163)

Tau protein kinase I
Glycogen synthase kinase-3β; Phosphorylated tau; Phosphatase 2A; Phosphatase 2B; Immunohistochemistry (Takahashi, M. (857) 193)

Taurine
GABA; $GABA_A$ receptor; $GABA_B$ receptors; Excitatory postsynaptic potential; Slow inhibitory postsynaptic potential (Del Olmo, N. (864) 298)

Amino acid transport blocker; α,*-threo*-β-Benzyloxyaspartate; Glutamate; Aspartate; Reversed transport; Cerebral cortex; Excitotoxicity (Phillis, J.W. (868) 105)

Hypothermia; Aged; Cerebralischemia; Microdialysis; Glutamate (Ooboshi, H. (884) 23)

TEA
Presynaptic D_2 dopamine receptor; Evoked-[^{3}H]-ACh release; 7-OH-DPAT; 4-AP; Quinine; Potassium channel-blocker (Sanz, A.G. (874) 116)

Tectal commissure
Visual system; Evoked potential; Electrophysiology (Keysers, C. (852) 406)

Tegmentum
Auditory; Fish; Communication (Goodson, J.L. (865) 107)

Telemetric recording
Conditioned fear; Extracellular serotonin (5-HT); Locus coeruleus (LC); Arterial blood pressure; Motility; Heart rate; Push–pull superfusion (Kaehler, S.T. (859) 249)

Telencephalon
Cannabinoid; Songbird; Cognitive; Development (Soderstrom, K. (857) 151)

AgNOR; Spatial learning; Goldfish; Teleost fish (Vargas, J.P. (865) 77

Teleost
Subcommissural organ–Reissner's fiber complex; γ-Aminobutyric acid; GABA; Calcitonin-like immunoreactivity; Immunocytochemistry (Saha, S.G. (852) 335)

Teleost fish
AgNOR; Spatial learning; Telencephalon; Goldfish (Vargas, J.P. (865) 77)

Temperature
Hippocampal slice; Autometallography (AMG); Zinc staining; Vesicular zinc; Synaptically-released zinc excitotoxicity (Suh, S.W. (879) 7)

Tempol
Cerebral ischemia; Gerbil; Neuronal death; Brain injury; Lipid peroxidation (Cuzzocrea, S. (875) 96)

Temporal cortex
Down Syndrome; Ts65Dn mouse; Synapses; Morphometry; Memory (Kurt, M.A. (858) 191)

Temporal dynamics
Opiates; MK-801; NMDA; Glutamate; Plasticity (Kosten, T.A. (878) 20)

Temporal lobe
Epilepsy; Kindling; Status epilepticus (Potschka, H. (855) 252)

Temporal lobe epilepsy
Hippocampus; Nitric oxide synthase; Perforant pathway stimulation; Status epilepticus (Lumme, A. (871) 303)

Norepinephrine; Serotonin; Dopamine; Ascorbic acid; Human hippocampus; Subparcellation; Microelectrode; Electrochemistry (Broderick, P.A. (878) 48)

Temporal model
fMRI; SMA; Motor cortex; Movement predictability (Thickbroom, G.W. (874) 233)

Temporary focal ischemia
Brain-derived neurotrophic factor; Ischemic tolerance; Cerebral ischemia; Cerebral infarction; Rat (Yanamoto, H. (859) 240)

Tenascin-C
Cell adhesion; Chondroitin sulfate; CNS matrix; Fibronectin; Tenascin-R (Probstmeier, R. (863) 42)

Tenascin-R
Cell adhesion; Chondroitin sulfate; CNS matrix; Fibronectin; Tenascin-C (Probstmeier, R. (863) 42)

Terfenadine
excitatory aminoacid receptors; histamine; reactive oxygen species; intracellular calcium; cultured cerebellar neurons. (Díaz-Trelles, R. (880) 17

C-terminal fragment
Arginine^8-vasopressin; Metabolite; Calcium; Inositol(1,4,5)-trisphosphate (Nakayama, Y. (858) 416)

Basal ganglia; Delayed degeneration; Amyloid precursor protein; Substantia nigra (DeGiorgio, L.A. (874) 137)

Terminal Schwann cell
Ruffini ending; Periodontal ligament; Non-specific cholinesterase activity; Histochemistry; Rat (Hayashi, S. (858) 167)

Development; Nerve injury; Regeneration; Periodontal ligament; Ruffini endings (Atsumi, Y. (871) 201)

Testing strategy
Combined motor score; Motor deficit (Metz, G.A.S. (883) 165)

Testosterone
Sexual differentiation; Defeminization; c-Fos gene expression; Estradiol (Arrieta, I. (867) 100)

δ-9-Tetrahydrocannabinol
Forebrain ischemia; Striatum; Hippocampus (Louw, D.F. (857) 183)

Tetrahydroprogesterone
Progesterone; Allopregnanolone; Non-genomic; Neurosteroid; Pentylenetetrazol (Frye, C.A. (881) 98)

Tetrodotoxin
Allodynia; Dorsal root ganglion; Ectopic discharge; Local anesthetic; Sodium channel (Lyu, Y.S. (871) 98)

Tetrodotoxin-resistant
N-Ethylmaleimide; Sulfhydryl; Alkylation; Tetrodotoxin-sensitive; Sodium channel; Dorsal root ganglion (Song, J.-H. (855) 267)

Sulfhydryl oxidation; Thimerosal; Tetrodotoxin-sensitive; Sodium channel; Dorsal root ganglion (Song, J.-H. (864) 105)

Tetrodotoxin-sensitive
N-Ethylmaleimide; Sulfhydryl; Alkylation; Tetrodotoxin-resistant; Sodium channel; Dorsal root ganglion (Song, J.-H. (855) 267)

Sulfhydryl oxidation; Thimerosal; Tetrodotoxin-resistant; Sodium channel; Dorsal root ganglion (Song, J.-H. (864) 105)

TGF-β1 immunoreactivity
Hippocampal CA1 pyramidal neurons; Microglia, Astrocyte; Transient forebrain ischemia; DNA fragmentation (Zhu, Y. (866) 286)

TGR(mRen2)27
Suprachiasmatic nucleus; c-fos mRNA; Heart rate; Blood pressure; Entrainment (Lemmer, B. (883) 250

Thalamus
Androgenic–anabolic steroid; Morphine; Immediate-early gene; Striatum; β-Endorphin (Harlan, R.E. (853) 99)

Metabotropic glutamate receptor; In situ hybridisation (Neto, F.L. (854) 93)

Thiamine; Histamine; Mast cells; Basophils; Hippocampus; Vascular changes (McRee, R.C. (858) 227)

Lateral geniculate nucleus; Corticothalamic; Attention; Cognition; Consciousness (Montero, V.M. (864) 95)

Cerebellum; Colliculus superior; Vision; Fluorescence microscope (Katoh, Y.Y. (864) 308)

Hyperventilation; Hypocapnia; Sagittal sinus; Brain (Nwaigwe, C.I. (868) 150)

Chemokine; MCP-1; Microglia; Retrograde neuronal degeneration (Muessel, M.J. (870) 211)

Metabotropic glutamate; mGluR$_5$; NMDA; Nociception; Sensory transmission; Spinal cord (Bordi, F. (871) 223)

Retinal afferents; Subcortical; Ventral lateral geniculate nucleus; Vision (Livingston, C.A. (876) 166)

Lithium; Muscarinic effect; Brain region; Acepromazine; Seizure; 2-Deoxyglucose (Peredery, O. (881) 9)

Thapsigargin
Formalin-induced nociception; Intracellular calcium; Ryanodine; Diabetes (mouse) (Kamei, J. (862) 257)

Theiler's virus
Multiple sclerosis; Neurodegeneration; Oligodendrocyte; Footprint; Motor function (McGavern, D.B. (877) 396)

Theophylline
Adenosine; Excitatory amino acid; Microdialysis; Spinal cord injury (McAdoo, D.J. (854) 152)

Electroretinography (ERG); Propentofylline; Vision; Xanthines (Andjus, R.K. (868) 176)

Therapeutic
Veratridine; Carbamazepine; Spontaneous bursting; Evoked bursting; Brain slice; Hippocampus (Otoom, S.A. (885) 289)

Theta
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TNFα
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Tricyclic compound
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U50488H
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***unc*-50**
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Urocortin
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Anti-urocortin γ-globulin; Feeding behavior; Ventromedial hypothalamic nucleus (Ohata, H. (861) 1)

Reward; Intracranial self-stimulation; CRF; D-Phe CRF_{12-41}; Rat (Macey, D.J. (866) 82)

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V1 Neuron
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Vagal ligation
Nodose ganglion; NOS; NADPH-diaphorase; Vagus nerve; Axonal transport (Fong, A.Y. (878) 240)

Vaginocervical stimulation
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Female rat; Fos; Lumbosacral spinal cord; Estrous cycle (Ghanima, A. (880) 109)

Vagotomy
c-Fos; Immunohistochemistry; Visceral sense (Yamamoto, T. (866) 135)

Cholecystokinin; Myenteric plexus; Enteric nervous system; Capsaicin; Brain; Immunohistochemistry (Sayegh, A.I. (878) 155)

Vagus
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Vagus nerve
Nodose ganglion; NOS; NADPH-diaphorase; Vagal ligation; Axonal transport (Fong, A.Y. (878) 240)

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Efflux transport; Organic anion transporter; Blood–brain barrier; Brain parenchyma (Scism, J.L. (884) 77)

Various NMDA receptor stimulation
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Vascular dementia
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Activity-dependent neurotrophic factor (ADNF); Activity-dependent neuroprotective protein; Parkinson's disease (PD); Buthionine sulfoximine (BSO); Dopamine (DA) (Offen, D. (854) 257)

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Suprachiasmatic nucleus; Vasopressin; Circadian rhythm; Phase-shift; Glutamate (Watanabe, K. (877) 361)

Nodose ganglion; Petrosal ganglion; Nerve growth factor; Neurotrophin-3; Neurotrophin-4; Tyrosine hydroxylase (Helke, C.J. (884) 206)

Vasoactive intestinal polypeptide
Activity-dependent neurotrophic factor; Dorsal root ganglion cells; cAMP responsive binding protein; Pain (White, D.M. (868) 31)

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Vasopressin
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Locomotor activity; Wheel running; Period; Immunohistochemistry; Vasoactive intestinal polypeptide (Shima, T. (870) 36)

c-Fos; Conditioned taste aversion; Feeding; Nociceptin/orphanin FQ; Nocistatin; Oxytocin (Olszewski, P.K. (872) 181)

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Suprachiasmatic nucleus; Vasoactive intestinal peptide; Circadian rhythm; Phase-shift; Glutamate (Watanabe, K. (877) 361)

Nitric oxide; Angiotensin II; Losartan; Prostaglandin (Kadekaro, M. (877) 371)

Neurokinin B receptor; Senktide; *c-fos*; Hypothalamus; Rat (Ding, Yu.-Q. (882) 95)

Restraint; WKY; SHR; Angiotensin; Receptor autoradiography (McDougall, S.J. (883) 148

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Human hypothalamus; Paraventricular nucleus; Supraoptic nucleus; Tyrosine hydroxylase; Syndrome of inappropriate antidiuretic hormone secretion (Panayotacopoulou, M.T. (855) 181)

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Ventral midbrain
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Ventral pallidum
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Ventral subicular lesioning
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Ventral tegmental area
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Ventral pallidum; Dizocilpine (MK-801); Dopamine release; Microdialysis; Motor behavior (Kretschmer, B.D. (859) 147)

Substantia nigra; Striatum; Calbindin; Neuroprotection; Dopamine; Parkinson's disease (Tan, Y. (869) 56)

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nuclei; Mesoamygdaloid dopamine system (Greba, Q. (870) 135)

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Brain-stimulation reward; Collision test; Axonal collision; Transynaptic collision; Summation; Lateral preoptic area (Bielajew, C. (881) 112)

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Ventrobasal thalamus
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Ventrolateral medulla
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ICI 182,780; Nucleus ambiguus; Nucleus tractus solitarius; Rostral; Spinal cord (Saleh, M.C. (867) 200)

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Ventromedial hypothalamic nucleus
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Ventromedial hypothalamus
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Vertex-MLAEP
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Vestibular
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Nitric oxide; cAMP; Hair cell; Equilibrium receptor organ; Invertebrate (Tu, Y. (880) 65)

Vestibular compensation
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Vestibular nerve afferent fiber
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Vestibular nuclei
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Protein kinase C; Vestibular compensation; Ca^{2+}/calmodulin-dependent kinase II; Neural plasticity (Sansom, A.J. (882) 45)

Vestibular nucleus
Optical recording; Voltage-sensitive dye; Cochlear nucleus; Synaptic transmission; Mouse; Brainstem (Yang, S.-M. (877) 95)

NMDA receptor; AMPA receptor; Co-localization; Immunocytochemistry (Chen, L.W. (884) 87)

Vibration-induced kinesthetic illusion
Antagonist vibratory response; Motor unit; Wrist extensor muscle; Human; Microelectromyography (Calvin-Figuière, S. (881) 128)

Video-enhanced microscopy
Axonal transport; Dorsal root ganglion neuron; Substance P; Calcitonin gene-related peptide; Immunocytochemistry (Hiruma, H. (883) 184)

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Viscera
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Loop diuretic; Autonomic control; Sympathetic nervous system; Immediate–early gene expression; Spinal cord dorsal horn (Fitch, G.K. (861) 377)

Visceral pain
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c-Fos; Immunohistochemistry; Taste; Area postrema; Nucleus tractus solitarius; Parabrachial nucleus (Yamamoto, T. (866) 144)

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Retinal afferents; Subcortical; Thalamus; Ventral lateral geniculate nucleus (Livingston, C.A. (876) 166)

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Visual cortex damage
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Central nervous system regeneration; Microglia/macrophage (Ghali, R.P. (854) 178)

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Neurodegeneration; 6-Deoxy-6-β-[^{18}F]fluoronaltrexone; Positron emission tomography; Cortex (Cohen, R.M. (879) 1)

Neural coding; Retina; Neural ensembles; Discriminant analysis; Multineuronal recording (Fernández, E. (887) 222)

Visual Wulst
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Visually guided jaw movement
Primary motor cortex; Premotor cortex; Delay period; Single neuronal activity; Monkey (Yoshino, K. (852) 414)

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Voltage sensitive Na^+ channel
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Voltage-gated calcium channels
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N-type channel; α_{1B} subunit; Mature rat brain; Immunohistochemistry (Chung, Y.H. (866) 274

Voltage-gated ion channel
Primate; Retinal cell; Morphology; Patch clamp electrophysiology (Han, Y. (875) 175)

Voltage-operated calcium channel
Dopamine; Neostriatum; Patterned firing; Fast cyclic voltammetry; Brain slice (Phillips, P.E.M. (884) 139)

Voltage-sensitive dye
Optical recording; Cochlear nucleus; Vestibular nucleus; Synaptic transmission; Mouse; Brainstem (Yang, S.-M. (877) 95)

Voltammetry
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Volume expansion
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Volume-regulation
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von Frey test
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pling; Electrolyte; Wet–dry (Hu, W. (868) 370)

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Cocaine; Locomotion; 5-HT_{1A} receptors; Dopamine (Carey, R. (862) 242)

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Pentraxin; Pyramidal neuron; Hippocampus; Entorhinal cortex; Liver; Cerebellum; In situ hybridization; mRNA; Immunohistochemistry (Yasojima, K. (887) 80)

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Whole-cell recording
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Melatonin; Glycine receptors; Cultured spinal neurons; Noncompetitive inhibition (Wu, F.-S. (881) 208)

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[^{3}H]WIN 35428
Dopamine D_2 receptor; Dopamine uptake transporter; [^{3}H]Nemonapride; Parkinson's disease; Striatonigral degeneration (González, A.M. (852) 228)

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Xanthine
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ZEN
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ZEN terminal
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zif268
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Zif268
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ZEN; ZnT3; Synapse; Olfactory bulb; Mouse (Jo, S.M. (865) 227)

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Glucose transporters; Retinal pigment epithelium; Blood–brain barrier; Tight junctions (Ban, Y. (121) 89)

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Nitric oxide synthase; Type I NOS; Sheep fetus; mRNA; Catalytic activity; Splice variants; Protein variants (Massmann, G.A. (124) 141)

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Birth; Locus ceruleus; Noradrenaline; Catecholamine; Tyrosine hydroxylase (Wickström, R. (123) 53)

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Calcium current; Kinetics; Hippocampus; Maturation (Ribeiro, M.A. (124) 11)

Calcium
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Neonatal rat; Hypoxia-ischemia; Brain damage; Mitochondria; Oxalate–pyroantimonate; Electron microscopy; Apoptosis (Puka-Sundvall, M. (125) 31)

Calcium current
Kinetics; CA1; Hippocampus; Maturation (Ribeiro, M.A. (124) 11)

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Caspase-9
Apoptosis; Bcl-xL; Cytochrome c; Neuronal development; Ced-3; Ced-9 (Fujita, E. (122) 135)

Catalytic activity
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Catecholamine
Brainstem; Birth; Locus ceruleus; Noradrenaline; Tyrosine hydroxylase (Wickström, R. (123) 53)

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Bdm2; Brain development; mRNA expression; In situ hybridization (Nishinaka, N. (120) 57)

Ced-3
Apoptosis; Caspase-9; Bcl-xL; Cytochrome c; Neuronal development; Ced-9 (Fujita, E. (122) 135

Ced-9
Apoptosis; Caspase-9; Bcl-xL; Cytochrome c; Neuronal development; Ced-3 (Fujita, E. (122) 135)

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Cerebral cortex
Hippocampus; Cerebellum; Benzodiazepine; Zolpidem (Roberts, A.A. (119) 21)

Fringe; Mouse; Neurogenesis; Cell division; Subventricular zone (Ishii, Y. (119) 307)

Rat *Small eye* (*rSey*); *Pax-6*; 5′-Bromodeoxyuridine (BrdU); Terminal deoxynucleotidyl transferase (TdT)-mediated dUTP-biotin nick end labeling (TUNEL); Highly polysialylated NCAM (PSA-NCAM) (Fukuda, T. (120) 65)

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Acetylcholine; Cholinesterase; Behavior (Dam, K. (121) 179)

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Cortex
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Apoptosis; Brainstem; Cerebellum; Neuronal death; Thalamus (Mooney, S.M. (123) 103)

CTOP
Opioid receptor; Dependence; Withdrawal behavior; Naltrindole; Nor-BNI (McPhie, A.A. (124) 73)

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Cyclic guanosine 3′,5′-monophosphate (cGMP)
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CYP26
*P*450RAI; Human prenatal; Brain development; Retinoid (Trofimova-Griffin, M.E. (120) 7)

Cytochrome c
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Dependence
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Adenylyl cyclase; β-Adrenoceptor; Chlorpyrifos; Glucagon receptor; Liver; Organophosphate insecticides (Auman, J.T. (121) 19)

Primary afferent; Substantia gelatinosa; Dorsal root ganglion; C fibre; Spinal cord (Torsney, C. (121) 55

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Serotonin; c-Fos; Circadian rhythms; Suprachiasmatic nucleus (Ferguson, S.A. (121) 229)

Rat; Somatomotor cortex; Culture; Axonal outgrowth; Arealization; Regionalization (Mouveroux, J.M.P. (122) 59)

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Glutamate receptor; Vestibular nucleus; Nonradioactive in situ hybridization histochemistry (Sans, N.A. (123) 41)

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Nerve growth factor; Gene expression; Maternal separation; Central nervous system; Rat (Cirulli, F. (123) 129)

Purkinje neuron; Sodium pump; Confocal microscopy; Image analysis (Biser, P.S. (123) 165)

Schizophrenia; Haloperidol; Ontogeny (Kinkead, B. (124) 1)

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Hippocampus; Granule cell; Glutamatergic current; *N*-Methyl-D-aspartate (Ye, G.-l. (124) 33)

Corpus callosum; Neuropeptide Y; Somatostatin; Immunocytochemistry; Rat (Ding, S.-L. (124) 59)

Hypoxia; $GABA_A$ receptor; CNS; Steroid; Barbiturate (Rodríguez Gil, D.J. (124) 67)

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DiI
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Distribution
Opioid-binding cell adhesion molecule; OBCAM; IgLON; Rat; Development; Immunohistochemistry; Localization (Hachisuka, A. (122) 183)

Dizocilpine
Development; Phencyclidine; Immediate early gene; Locomotion; Motor cortex; Posterior retrosplenial cortex; c-Fos; Schizophrenia (Jacobs, P.S. (122) 91)

DNA fragmentation
Glial growth factor; Neural crest cells; Apoptosis; Migration; BrdU incorporation (Bannerman, P.G. (124) 93)

DOI
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Dopamine transporter
hNT neuron; Tyrosine hydroxylase; Dopamine receptor D2; Aldehyde dehydrogenase; Immunocytochemistry (Zigova, T. (122) 87)

Dorsal root ganglion
Primary afferent; Substantia gelatinosa; C fibre; Spinal cord; Development (Torsney, C. (121) 55)

Development; Pathway formation; Fasciculation; Cervical segment; Avian (Shiga, T. (124) 25)

GABA receptor; Pentobarbital; Cl^- channel; Embryonic and adult human neurons; Patch clamp; Fluctuation analysis; Conductance (Valeyev, A.Y. (124) 137)

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DRG
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Drug abuse
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Dystrophin glycoprotein complex
Utrophin; Dystrophin; Rat embryo; Skeletal muscle (Lin, S. (119) 289)

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Choline transporter; Correlation; Eight-arm maze; Heroin; Neural grafting; Phenobarbital; Protein kinase C (Steingart, R.A. (125) 9)

Eight-arm maze
Correlation; Early exposure; Inositol phosphate formation; Heroin; Muscarinic receptors; Neural grafting; Phenobarbital (Steingart, R.A. (122) 125)

Choline transporter; Correlation; Early exposure; Heroin; Neural grafting; Phenobarbital; Protein kinase C (Steingart, R.A. (125) 9)

Electron microscopy
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Emetic reflex
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Fetal alcohol syndrome; Annexin-V; Phosphatidylserine; JNK; MAP kinase (McAlhany Jr., R.E. (119) 209)

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Corpus callosum; Development; Feminization; Ovarian hormone; Neonatal (Bimonte, H.A. (122) 149)

Estrogen receptor alpha
Estrogen receptor beta; Hippocampus; Digoxigenin in situ hybridization; Prepubertal rat (Orikasa, C. (120) 245)

Estrogen receptor beta
Estrogen receptor alpha; Hippocampus; Digoxigenin in situ hybridization; Prepubertal rat (Orikasa, C. (120) 245)

Ethanol
Hippocampal cell culture; Neuronal development; Fetal Alcohol syndrome; Process outgrowth; Synaptogenesis (Yanni, P.A. (120) 233)

Astrocyte; S100B; Midline raphe glial structure; Buspirone; Ipsapirone; 5-HT_{1A} agonist (Eriksen, J.L. (121) 133)

Evoked synaptic current
Synaptogenesis; Spontaneous synaptic current; Autaptic response; Neuronal circuit; Rat hippocampus (Liu, Q.-Y. (120) 223

Explant culture
Neocortex; Spontaneous action potential; Extracellular recording; Activity blockade (Echevarría, D. (123) 151)

External granular layer neuron
Caspase-3 (CPP32); Apoptosis; Cerebellar development; Cleavage site-directed antibody; Organotypic slice culture (Tanaka, M. (121) 223)

External granule cell layer
Cell–cell interaction; Cell migration; Development of cerebellum; HNK-1 carbohydrate; Sulfoglucuronyl carbohydrate binding protein; Purkinje cell; Molecular layer; Internal granule cell layer (Zhao, Z. (120) 165)

Extracellular recording
Neocortex; Spontaneous action potential; Explant culture; Activity blockade (Echevarría, D. (123) 151)

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Fasciculation
Development; Dorsal root ganglion; Pathway formation; Cervical segment; Avian (Shiga, T. (124) 25)

Fast protein liquid chromatography
Proliferative vitreoretinopathy (PVR); Rat; Growth factor; Affinity assay (Jaynes, C.D. (120) 267)

FDG
PET; Monkey; Conscious; Development; Glucose metabolism (Moore, A.H. (120) 141)

Feline brain
Growth; Morphometric study; Neocortex; White matter (Villablanca, J.R. (122) 11)

Growth; Morphometric study; Subcortical nuclei (Villablanca, J.R. (122) 21)

Feminization
Corpus callosum; Development; Ovarian hormones; Organizational effects; Sexual differentiation (Bimonte, H.A. (121) 169)

Corpus callosum; Development; Ovarian hormone; Estrogen; Neonatal (Bimonte, H.A. (122) 149)

Fetal
Cell culture; Post-natal; Defined media; MAP2; Immunocytochemistry (Kivell, B.M. (120) 199)

Fetal alcohol syndrome
Annexin-V; Phosphatidylserine; JNK; ERK; MAP kinase (McAlhany Jr., R.E. (119) 209)

Ethanol; Hippocampal cell culture; Neuronal

development; Process outgrowth; Synaptogenesis (Yanni, P.A. (120) 233)

Hippocampus; Septum; Cerebellum; Cortex; Striatum; NGF; BDNF; NT-3 (Heaton, M.B. (121) 97)

Fetal cortex
S100B; S100A6; Calcyclin; Human cerebral cortex; Aged cortex; Protein expression (Tiu, S.C. (119) 159)

Fetus
Prostaglandin transport; Prostaglandin catabolism; Newborn; Adult; Birth; Cerebrospinal fluid; Blood–brain barrier; Pregnancy (Krunic, N. (119) 11)

Neonate; Brain; Mitochondria; Developmental change (Nakai, A. (121) 67)

Newborn; Adult; Choroid plexus; Development; Sheep; Prostaglandin catabolism; Birth (Krunic, N. (121) 145)

Neurosteroid; 5α-Reductase; P450scc; Allopregnanolone; $GABA_A$ receptor; Cerebellum (Petratos, S. (123) 81)

Brain development; Neuroprotection; Neurogenesis; Hematopoiesis (Dame, C. (125) 69)

Fiber types
Skeletal muscle; Myosin; Motor endplate; Multiple innervation (Huckstorf, B.L. (119) 169)

C fibre
Primary afferent; Substantia gelatinosa; Dorsal root ganglion; Spinal cord; Development (Torsney, C. (121) 55)

3T3 fibroblasts
Ganglioside GM1; MAP2; Transfection; Microtubules; Actin (Colella, R. (121) 1)

Fibronectin
Infraorbital nerve; Whisker follicle; Chondroitin sulfate proteoglycan; DiI (Günhan-Agar, E. (119) 277)

TRH; Pro-TRH; Hypothalamus; Laminin; Vitronectin; Tenascin-C; Pro-protein convertase PC1 (Niquet, J. (120) 49)

Fluctuation analysis
Dorsal root ganglion; GABA receptor; Pentobarbital; Cl^- channel; Embryonic and adult human neurons; Patch clamp; Conductance (Valeyev, A.Y. (124) 137)

Flutamide
Sexual dimorphism; Hypothalamus; SDN-POA; AVPV; Testosterone; Rat (Lund, T.D. (120) 261)

FMRFamide
Zebrafish; Sterlet; Ontogeny; Immunohistochemistry (Pinelli, C. (119) 195

Forelimb innervation
Sensory neuron number; Mouse embryo; Postnatal neuron addition; Cell death (Berg, J.S. (125) 21)

C-*fos*
Sprouting; Plasticity; Neonatal; Nerve injury; Spinal cord (Shortland, P. (119) 243)

Fos
Retina; Suprachiasmatic nucleus; Circadian rhythm (Llamosas, M.M. (120) 1)

c-fos
Rat fetus; Hypothalamus; Osmolality (Xu, Z. (121) 11)

c-Fos
Development; Serotonin; Circadian rhythms; Suprachiasmatic nucleus (Ferguson, S.A. (121) 229)

Development; Phencyclidine; Dizocilpine; Immediate early gene; Locomotion; Motor cortex; Posterior retrosplenial cortex; Schizophrenia (Jacobs, P.S. (122) 91)

Fringe
Mouse; Cerebral cortex; Neurogenesis; Cell division; Subventricular zone (Ishii, Y. (119) 307)

Frontal cortex
Basal forebrain cholinergic system; Postnatal development; Cholinergic projection; Mouse (Villalobos, J. (120) 99)

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GABA
Glutamic acid decarboxylase; Cell adhesion molecule; IgG superfamily; Axonal outgrowth (Orlino, E.N. (125) 117)

GABA receptor
Dorsal root ganglion; Pentobarbital; Cl^- channel; Embryonic and adult human neurons; Patch clamp; Fluctuation analysis; Conductance (Valeyev, A.Y. (124) 137)

$GABA_A$ receptor
Cerebellar granule neuron; Maturation; Brain-derived neurotrophic factor; Mitogen-activated protein kinase; Gene expression (Bulleit, R.F. (119) 1)

Fetus; Neurosteroid; 5α-Reductase; P450scc; Allopregnanolone; Cerebellum (Petratos, S. (123) 81)

Hypoxia; CNS; Development; Steroid; Barbiturate (Rodríguez Gil, D.J. (124) 67

Ganglioside GM1
MAP2; Transfection; 3T3 fibroblasts; Microtubules; Actin (Colella, R. (121) 1)

Gap junction
Connexin; RT–PCR; Postnatal development; Neocortex; mRNA (Prime, G. (119) 111)

Gender
Epilepsy; Prenatal drug exposure; Opiates; Development (Schindler, C.J. (121) 119)

Gene expression
Cerebellar granule neuron; Maturation; Brain-derived neurotrophic factor; Mitogen-activated protein kinase; $GABA_A$ receptor (Bulleit, R.F. (119) 1)

Olfactory bulb; Development; Bcl-2; Sexual differentiation (Wong, C.C. (119) 187)

Nerve growth factor; Development; Maternal separation; Central nervous system; Rat (Cirulli, F. (123) 129)

Gephyrin
Lithium; Chicken embryo; Heart rate; Ciliary ganglion; Neuronal death; Brain ETO (Ikonomov, O.C. (123) 13)

Glia
Angiogenesis; Vascular endothelial growth factor; Hypoxia; Neuron; Stabilization (Ogunshola, O.O. (119) 139)

Phosphatidylcholine-specific phospholipase D; Brain; Rat; In situ hybridization histochemistry (Saito, S. (120) 41)

Growth factor; Rat; CNS; Development (Scarisbrick, I.A. (123) 87)

Glial cell
Chick Sox10; Neural crest; Otic vesicle (Cheng, Y.-C. (121) 233)

Optic nerve; Myelination; CNS development; Neuron–glia interaction; Tissue culture (Knapp, P.E. (125) 89)

Glial growth factor
Neural crest cells; DNA fragmentation; Apoptosis; Migration; BrdU incorporation (Bannerman, P.G. (124) 93)

Glucagon receptor
Adenylyl cyclase; β-Adrenoceptor; Chlorpyrifos; Development; Liver; Organophosphate insecticides (Auman, J.T. (121) 19)

Glucose metabolism
PET; FDG; Monkey; Conscious; Development (Moore, A.H. (120) 141)

Glucose oxidative metabolism
Brain development; α-Ketoglutarate dehydrogenase complex; Tricarboxylic acid cycle; Thiamine-dependent enzyme (Buerstatte, C.R. (125) 139

Glucose transporters
Blood–retinal barrier; Retinal pigment epithelium; Blood–brain barrier; Tight junctions (Ban, Y. (121) 89)

GLUT1
Human foetus brain; Microvessels; Blood–brain barrier; Endogenous albumin; Immunogold electron microscopy (Virgintino, D. (123) 95)

Glutamate receptor
Vestibular nucleus; Development; Non-radioactive in situ hybridization histochemistry (Sans, N.A. (123) 41)

Immunoblot; Western blot (Prybylowski, K.L. (123) 143)

Glutamatergic current
Hippocampus; Granule cell; Development; *N*-Methyl-D-aspartate (Ye, G.-l. (124) 33)

Glutamic acid decarboxylase
GABA; Cell adhesion molecule; IgG superfamily; Axonal outgrowth (Orlino, E.N. (125) 117)

Glutathione
Cerebral hypoxia–ischemia; Mitochondria; Oxidative stress; Neonatal rat; Amino acid (Wallin, C. (125) 51)

Golgy–Cox study
Neural sex dimorphism; Raphe nucleus; Serotonergic system (Cordero, M.E. (124) 43)

Granule cell
Hippocampus; Development; Glutamatergic current; *N*-Methyl-D-aspartate (Ye, G.-l. (124) 33)

Growth
Feline brain; Morphometric study; Neocortex; White matter (Villablanca, J.R. (122) 11)

Feline brain; Morphometric study; Subcortical nuclei (Villablanca, J.R. (122) 21)

Hypothalamic NPY content; Unbalanced diet; Paraventricular nucleus; Insulin; Long-Evans rat (Kozak, R. (125) 75)

Growth cones
Axonal labeling; Technique; Sensory ganglia (Kato, H. (121) 109)

Growth factor
Proliferative vitreoretinopathy (PVR); Fast protein liquid chromatography; Rat; Affinity assay (Jaynes, C.D. (120) 267)

Glia; Rat; CNS; Development (Scarisbrick, I.A. (123) 87

H

Habituation
Iron administration; Postnatal; Motor behaviour; Radial maze learning; Basal ganglia; NMRI mouse (Fredriksson, A. (119) 65)

Haloperidol
Schizophrenia; Development; Ontogeny (Kinkead, B. (124) 1)

Head shaking
MK-801; Neonatal rat; DOI; NMDA receptor (Kurumaji, A. (124) 125)

Heart
Adenylyl cyclase; β-Adrenergic receptor; Cholinergic receptor; Environmental tobacco smoke; Lung; Nicotine; Tobacco (Slotkin, T.A. (124) 53)

Heart, development of β-adrenoceptor signaling
Adenylyl cyclase, development of β-adrenoceptor control; β-Adrenoceptor, development; Development of cardiac adenylyl cyclase; Isoproterenol, effects on adenylyl cyclase; Sensitization/desensitization of adenylyl cyclase (Zeiders, J.L. (120) 125)

Heart rate
Lithium; Chicken embryo; Ciliary ganglion; Neuronal death; Brain ETO; Gephyrin (Ikonomov, O.C. (123) 13)

Hematopoiesis
Brain development; Neuroprotection; Neurogenesis; Fetus (Dame, C. (125) 69)

Heroin
Correlation; Early exposure; Eight-arm maze; Inositol phosphate formation; Muscarinic receptors; Neural grafting; Phenobarbital (Steingart, R.A. (122) 125)

Choline transporter; Correlation; Early exposure; Eight-arm maze; Neural grafting; Phenobarbital; Protein kinase C (Steingart, R.A. (125) 9)

High-affinity uptake
Ontogeny; Development; Serotonin, 5-HT; Volume transmission; Drug abuse; Thalamocortical projection; Somatosensory; Barrel formation (Zhou, F.C. (119) 33)

Highly polysialylated NCAM (PSA-NCAM)
Rat *Small eye* (*rSey*); *Pax-6*; 5′-Bromodeoxyuridine (BrdU); Terminal deoxynucleotidyl transferase (TdT)-mediated dUTP-biotin nick end labeling (TUNEL); Cerebral cortex (Fukuda, T. (120) 65)

Hindbrain
Enhancer; *Hox* gene; Mouse; Rhombomere; Segmentation; Silencer (Fox, E.A. (120) 151)

Telencephalon; Retrograde labeling; Sexual differentiation; Vocal learning (Johnson, F. (121) 253)

Hippocampal cell culture
Ethanol; Neuronal development; Fetal Alcohol syndrome; Process outgrowth; Synaptogenesis (Yanni, P.A. (120) 233)

Hippocampus
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Ventromedial nucleus; Arcuate nucleus; Neurosteroid (Davis, A.M. (119) 127)

Estrogen receptor alpha; Estrogen receptor beta; Digoxigenin in situ hybridization; Prepubertal rat (Orikasa, C. (120) 245)

Fetal alcohol syndrome; Septum; Cerebellum; Cortex; Striatum; NGF; BDNF; NT-3 (Heaton, M.B. (121) 97)

Choline; Prenatal; Acetylcholine; Plasticity; Development (Montoya, D.A.C. (123) 25)

Medial septum; Diagonal band; Acetylcholine release presynaptic μ-opioid receptors; Presynaptic δ-opioid receptors; Postnatal development; Choline acetyltransferase (Gazyakan, E. (123) 135)

Calcium current; Kinetics; CA1; Maturation (Ribeiro, M.A. (124) 11)

Granule cell; Development; Glutamatergic current; *N*-Methyl-D-aspartate (Ye, G.-l. (124) 33)

HNK-1 carbohydrate
Cell–cell interaction; Cell migration; Development of cerebellum; Sulfoglucuronyl carbohydrate binding protein; Purkinje cell; Molecular layer; External granule cell layer; Internal granule cell layer (Zhao, Z. (120) 165)

hNT neuron
Tyrosine hydroxylase; Dopamine transporter; Dopamine receptor D2; Aldehyde dehydrogenase; Immunocytochemistry (Zigova, T. (122) 87)

Holoprosencephaly
Encephalization; Neural tube; Primitive neuroepithelium (Sahir, N. (121) 213)

Horizontal basal cell
Olfactory epithelium; Cell line; Neurogenesis; Retinoic acid (Satoh, M. (121) 219)

***Hox* gene**
Enhancer; Hindbrain; Mouse; Rhombomere; Segmentation; Silencer (Fox, E.A. (120) 151)

5-HT$_{1A}$ agonist
Astrocyte; S100B; Ethanol; Midline raphe glial structure; Buspirone; Ipsapirone (Eriksen, J.L. (121) 133

5-HT$_{1B}$ receptor
Serotonin; Transgenic knockout mouse; Somatosensory cortex; Barrel; Cytochrome oxidase (Boylan, C.B. (120) 91)

Human cerebral cortex
S100B; S100A6; Calcyclin; Fetal cortex; Aged cortex; Protein expression (Tiu, S.C. (119) 159)

Human foetus brain
Microvessels; Blood–brain barrier; GLUT1; Endogenous albumin; Immunogold electron microscopy (Virgintino, D. (123) 95)

Human prenatal
CYP26; *P*450RAI; Brain development; Retinoid (Trofimova-Griffin, M.E. (120) 7)

Human spinal cord
Development; NMDA; AMPA; Kainate; MK-801; Receptor autoradiography and Western blot (Åkesson, E. (119) 55)

β-Hydroxybutyrate
Ketogenic diet; Epilepsy; Animal model; Kainic acid; Spontaneous recurrent seizure (Su, S.W. (125) 131)

Hyperthyroidism
Thyroxine; Hypothyroidism; Iron (Levenson, C.W. (119) 105)

Hypothalamic NPY content
Unbalanced diet; Growth; Paraventricular nucleus; Insulin; Long-Evans rat (Kozak, R. (125) 75)

Hypothalamic pituitary adrenal axis
Neonatal isolation stress; Non-genomic; Neurosteroid; Progestin (Kehoe, P. (124) 133)

Hypothalamus
TRH; Pro-TRH; Laminin; Fibronectin; Vitronectin; Tenascin-C; Pro-protein convertase PC1 (Niquet, J. (120) 49)

Sexual dimorphism; SDN-POA; AVPV; Testosterone; Flutamide; Rat (Lund, T.D. (120) 261)

Rat fetus; c-*fos*; Osmolality (Xu, Z. (121) 11)

Trohpic factors; Cerebral cortex; Neural organization; Neurodevelopmental disorders (Kellogg, C.K. (121) 157)

Hypothyroidism
Thyroxine; Hyperthyroidism; Iron (Levenson, C.W. (119) 105)

Hypoxia
Angiogenesis; Vascular endothelial growth factor; Neuron; Glia; Stabilization (Ogunshola, O.O. (119) 139)

GABA$_A$ receptor; CNS; Development; Steroid; Barbiturate (Rodríguez Gil, D.J. (124) 67)

Postnatal; Calcium; Oxygen; *N*-Methyl-D-aspartate; Electrophysiology; Immunohistochemistry; Morphology; Necrosis (Marks, J.D. (124) 101)

Hypoxia-ischemia
Neonate; Neuronal nitric oxide synthase; Brain (Muramatsu, K. (123) 119)

Neonatal rat; Brain damage; Mitochondria; Calcium; Oxalate–pyroantimonate; Electron microscopy; Apoptosis (Puka-Sundvall, M. (125) 31)

Neonatal; Rat; Cerebral; Brain damage; Mitochondria; Caspase-3 (Puka-Sundvall, M. (125) 43)

I

IFNβ-1a
LPS; Blood–brain barrier (Nico, B. (119) 231)

IgG superfamily
Glutamic acid decarboxylase; GABA; Cell adhesion molecule; Axonal outgrowth (Orlino, E.N. (125) 117)

IgLON
Opioid-binding cell adhesion molecule; OBCAM; Rat; Development; Immunohistochemistry; Distribution; Localization (Hachisuka, A. (122) 183)

Image analysis
Purkinje neuron; Development; Sodium pump; Confocal microscopy (Biser, P.S. (123) 165)

IMHV
Nitric oxide; Chick; Synaptic plasticity; Long-term depression (Barcellos, C.K. (121) 79)

Immature glia
Neuronal migration; Axonal growth; S-100; Immunohistochemistry (Horie, M. (121) 197)

Immediate early gene
Development; Phencyclidine; Dizocilpine; Locomotion; Motor cortex; Posterior retrosplenial cortex; c-Fos; Schizophrenia (Jacobs, P.S. (122) 91)

Immobility
Periaqueductal gray; Lesion; Ultrasonic vocalization; Analgesia; Rat (Wiedenmayer, C.P. (120) 191)

Immunoblot
Glutamate receptor; Western blot (Prybylowski, K.L. (123) 143)

Immunocytochemistry
Cell culture; Fetal; Post-natal; Defined media; MAP2 (Kivell, B.M. (120) 199

hNT neuron; Tyrosine hydroxylase; Dopamine transporter; Dopamine receptor D2; Aldehyde dehydrogenase (Zigova, T. (122) 87)

Corpus callosum; Neuropeptide Y; Somatostatin; Development; Rat (Ding, S.-L. (124) 59)

Purkinje cell; Ataxic mutant mouse (Jeong, Y.-G. (125) 61)

Immunogold electron microscopy
Human foetus brain; Microvessels; Blood–brain barrier; GLUT1; Endogenous albumin (Virgintino, D. (123) 95)

Immunohistochemistry
SMI-32; Monkey striate cortex; Post-natal development; Neurofilament; Magnocellular vs. parvocellular (Kogan, C.S. (119) 85)

FMRFamide; Zebrafish; Sterlet; Ontogeny (Pinelli, C. (119) 195)

Immature glia; Neuronal migration; Axonal growth; S-100 (Horie, M. (121) 197)

Opioid-binding cell adhesion molecule; OBCAM; IgLON; Rat; Development; Distribution; Localization (Hachisuka, A. (122) 183)

Postnatal; Calcium; Hypoxia; Oxygen; *N*-Methyl-D-aspartate; Electrophysiology; Morphology; Necrosis (Marks, J.D. (124) 101)

Immunopanned pro-oligodendroglia
Defined medium; Tissue culture; Myelin (Ingraham, C.A. (125) 1)

Inflammation
Urinary bladder; Neurotrophic factor; Nerve growth factor; Neurotrophin-3; Neurotrophin-4; Ontogeny (Vizzard, M.A. (119) 217)

Infraorbital nerve
Whisker follicle; Chondroitin sulfate proteoglycan; Fibronectin; DiI (Günhan-Agar, E. (119) 277)

Inositol phosphate formation
Correlation; Early exposure; Eight-arm maze; Heroin; Muscarinic receptors; Neural grafting; Phenobarbital (Steingart, R.A. (122) 125)

Insulin
Hypothalamic NPY content; Unbalanced diet; Growth; Paraventricular nucleus; Long-Evans rat (Kozak, R. (125) 75)

Intercellular junction
Retinal pigment epithelium; Retina; Blood–retinal barrier; Tight junction (Ban, Y. (119) 259)

Interfascicular nucleus
Weaver mutant mouse; Dopaminergic neuron loss; Tyrosine hydroxylase immunohistochemistry; [^{3}H] Thymidine autoradiography; Retrorubral field; Substantia nigra pars compacta; Ventral tegmental area (Martí, J. (122) 165

Weaver mutant mouse; Tyrosine hydroxylase immunohistochemistry; [^{3}H] Thymidine autoradiography; Retrorubral field; Substantia nigra pars compacta; Ventral tegmental area (Martí, J. (122) 173)

Internal granule cell layer
Cell–cell interaction; Cell migration; Development of cerebellum; HNK-1 carbohydrate; Sulfoglucuronyl carbohydrate binding protein; Purkinje cell; Molecular layer; External granule cell layer (Zhao, Z. (120) 165)

Intracellular recording, Nociception, Pain, Slice preparation, Sexual dimorphism
(Phelan, K.D. (122) 157)

Ipsapirone
Astrocyte; S100B; Ethanol; Midline raphe glial structure; Buspirone; 5-HT$_{1A}$ agonist (Eriksen, J.L. (121) 133)

Iron
Thyroxine; Hyperthyroidism; Hypothyroidism (Levenson, C.W. (119) 105)

Iron administration
Postnatal; Motor behaviour; Habituation; Radial maze learning; Basal ganglia; NMRI mouse (Fredriksson, A. (119) 65)

Islet-1
Hu antigen; Differentiation marker; Neural crest; DRG (Cui, S. (121) 209)

Isopregnanolone
Embryonic; Allopregnanolone; Progesterone; 5α-Reductase activity; Thin layer chromatography (Pomata, P.E. (120) 83)

Isoproterenol, effects on adenylyl cyclase
Adenylyl cyclase, development of β-adrenoceptor control; β-Adrenoceptor, development; Development of cardiac adenylyl cyclase; Heart, development of β-adrenoceptor signaling; Sensitization/desensitization of adenylyl cyclase (Zeiders, J.L. (120) 125)

J

JNK
Fetal alcohol syndrome; Annexin-V; Phosphatidylserine; ERK; MAP kinase (McAlhany Jr., R.E. (119) 209

K

Kainate
Human spinal cord; Development; NMDA; AMPA; MK-801; Receptor autoradiography and Western blot (Åkesson, E. (119) 55)

Kainic acid
Ketogenic diet; Epilepsy; Animal model; Spontaneous recurrent seizure; β-Hydroxybutyrate (Su, S.W. (125) 131)

Ketogenic diet
Epilepsy; Animal model; Kainic acid; Spontaneous recurrent seizure; β-Hydroxybutyrate (Su, S.W. (125) 131)

α-Ketoglutarate dehydrogenase complex
Brain development; Glucose oxidative metabolism; Tricarboxylic acid cycle; Thiamine-dependent enzyme (Buerstatte, C.R. (125) 139)

Kinetics
Calcium current; CA1; Hippocampus; Maturation (Ribeiro, M.A. (124) 11)

L-DOPA
Aging; Biotransformation; Dopamine; Microdialysis; Striatum (Shui, H.-A. (121) 123)

L

Laminin
TRH; Pro-TRH; Hypothalamus; Fibronectin; Vitronectin; Tenascin-C; Pro-protein convertase PC1 (Niquet, J. (120) 49)

Lead
Synaptic plasticity; Protein kinase C; Mossy fiber-CA3 (Hussain, R.J. (121) 243)

Lesion
Periaqueductal gray; Ultrasonic vocalization; Analgesia; Immobility; Rat (Wiedenmayer, C.P. (120) 191)

Limb regeneration
Spinal cord regeneration; Neurotrophic factor; Amphibia; Culture (Bauduin, B. (119) 47)

Lithium
Chicken embryo; Heart rate; Ciliary ganglion; Neuronal death; Brain ETO; Gephyrin (Ikonomov, O.C. (123) 13)

Liver
Adrenal gland; Dexamethasone; Polyamine–stress–response; Open-field behavior; Rat brain development; Thymus (Gilad, V.H. (120) 255)

Adenylyl cyclase; β-Adrenoceptor; Chlorpyrifos; Development; Glucagon receptor; Organophosphate insecticides (Auman, J.T. (121) 19)

Localization
Opioid-binding cell adhesion molecule; OBCAM; IgLON; Rat; Development; Immunohistochemistry; Distribution (Hachisuka, A. (122) 183)

Locomotion
Development; Phencyclidine; Dizocilpine; Immediate early gene; Motor cortex; Posterior retrosplenial cortex; c-Fos; Schizophrenia (Jacobs, P.S. (122) 91)

Locomotor activity
U-50,488; *nor*-Binaltorphimine; Ontogeny; Substantia nigra pars reticulata; κ-Opioid (Collins, R.L. (119) 97)

Locus ceruleus
Brainstem; Birth; Noradrenaline; Catecholamine; Tyrosine hydroxylase (Wickström, R. (123) 53)

Long-Evans rat
Hypothalamic NPY content; Unbalanced diet; Growth; Paraventricular nucleus; Insulin (Kozak, R. (125) 75)

Long-term depression
IMHV; Nitric oxide; Chick; Synaptic plasticity (Barcellos, C.K. (121) 79)

LPS
IFNβ-1a; Blood–brain barrier (Nico, B. (119) 231)

Lung
Adenylyl cyclase; β-Adrenergic receptor; Cholinergic receptor; Environmental tobacco smoke; Heart; Nicotine; Tobacco (Slotkin, T.A. (124) 53)

M

Magnocellular vs. parvocellular
SMI-32; Monkey striate cortex; Post-natal development; Neurofilament; Immunohistochemistry (Kogan, C.S. (119) 85)

MAP2
Cell culture; Fetal; Post-natal; Defined media; Immunocytochemistry (Kivell, B.M. (120) 199)

Ganglioside GM1; Transfection; 3T3 fibroblasts; Microtubules; Actin (Colella, R. (121) 1)

MAP kinase
Fetal alcohol syndrome; Annexin-V; Phosphatidylserine; JNK; ERK (McAlhany Jr., R.E. (119) 209

Maternal separation
Nerve growth factor; Gene expression; Development; Central nervous system; Rat (Cirulli, F. (123) 129)

Maturation
Cerebellar granule neuron; Brain-derived neurotrophic factor; Mitogen-activated protein kinase; Gene expression; $GABA_A$ receptor (Bulleit, R.F. (119) 1)

Calcium current; Kinetics; CA1; Hippocampus (Ribeiro, M.A. (124) 11)

Medial preoptic nucleus
Preoptic area; Opioid; Parental behavior (Gulledge, C.C. (119) 269)

Medial septum
Hippocampus; Diagonal band; Acetylcholine release presynaptic μ-opioid receptors; Presynaptic δ-opioid receptors; Postnatal development; Choline acetyltransferase (Gazyakan, E. (123) 135)

MEK1
Mitogen-activated protein kinase; Neural progenitor; Epidermal growth factor; Basic fibroblast growth factor; Proliferation (Learish, R.D. (122) 97)

Methotrexate
Prenatal; Seizure susceptibility; Neuronal counts; Entorhinal cortex (Kábová, R. (123) 91)

***N*-Methyl-D-aspartate**
Hippocampus; Granule cell; Development; Glutamatergic current (Ye, G.-l. (124) 33)

Postnatal; Calcium; Hypoxia; Oxygen; Electrophysiology; Immunohistochemistry; Morphology; Necrosis (Marks, J.D. (124) 101)

Microdialysis
Aging; Biotransformation; Dopamine; L-DOPA; Striatum (Shui, H.-A. (121) 123)

Microtubule associated protein
Cell cycle kinetics; Cerebral cortex; Nestin; Neurofilament; Subventricular zone; Ventricular zone (Jacobs, J.S. (122) 67)

Microtubules
Ganglioside GM1; MAP2; Transfection; 3T3 fibroblasts; Actin (Colella, R. (121) 1)

Microvessels
Human foetus brain; Blood–brain barrier; GLUT1; Endogenous albumin; Immunogold electron microscopy (Virgintino, D. (123) 95)

Midline raphe glial structure
Astrocyte; S100B; Ethanol; Buspirone; Ipsapirone; $5\text{-}HT_{1A}$ agonist (Eriksen, J.L. (121) 133

Migration
Adult mouse vomeronasal organ; Neurogenesis; BrdU; B50-GAP43; Stathmin (Giacobini, P. (123) 33)

Glial growth factor; Neural crest cells; DNA fragmentation; Apoptosis; BrdU incorporation (Bannerman, P.G. (124) 93)

Mitochondria
Fetus; Neonate; Brain; Developmental change (Nakai, A. (121) 67)

Neonatal rat; Hypoxia-ischemia; Brain damage; Calcium; Oxalate–pyroantimonate; Electron microscopy; Apoptosis (Puka-Sundvall, M. (125) 31)

Neonatal; Rat; Cerebral; Hypoxia–ischemia; Brain damage; Caspase-3 (Puka-Sundvall, M. (125) 43)

Glutathione; Cerebral hypoxia–ischemia; Oxidative stress; Neonatal rat; Amino acid (Wallin, C. (125) 51)

Mitogen-activated protein kinase
Cerebellar granule neuron; Maturation; Brain-derived neurotrophic factor; Gene expression; $GABA_A$ receptor (Bulleit, R.F. (119) 1)

Basic fibroblast growth factor; Neuronal survival; Rat cortical neuron; Culture (Abe, K. (122) 81)

MEK1; Neural progenitor; Epidermal growth factor; Basic fibroblast growth factor; Proliferation (Learish, R.D. (122) 97)

MK-801
Human spinal cord; Development; NMDA; AMPA; Kainate; Receptor autoradiography and Western blot (Åkesson, E. (119) 55)

Neonatal rat; Head shaking; DOI; NMDA receptor (Kurumaji, A. (124) 125)

Molecular layer
Cell–cell interaction; Cell migration; Development of cerebellum; HNK-1 carbohydrate; Sulfoglucuronyl carbohydrate binding protein; Purkinje cell; External granule cell layer; Internal granule cell layer (Zhao, Z. (120) 165)

Monkey
PET; FDG; Conscious; Development; Glucose metabolism (Moore, A.H. (120) 141)

Monkey striate cortex
SMI-32; Post-natal development; Neurofilament; Immunohistochemistry; Magnocellular vs. parvocellular (Kogan, C.S. (119) 85)

Monoamine
Borna; Development; Rat (Pletnikov, M.V. (119) 179)

Morphology
Postnatal; Calcium; Hypoxia; Oxygen; *N*-Methyl-D-aspartate; Electrophysiology; Immunohistochemistry; Necrosis (Marks, J.D. (124) 101)

Morphometric study
Growth; Feline brain; Neocortex; White matter (Villablanca, J.R. (122) 11)

Growth; Feline brain; Subcortical nuclei (Villablanca, J.R. (122) 21)

Morphometry
Optic nerve; Axon topography; Age-related fiber order (Drenhaus, U. (121) 35)

Mossy fiber-CA3
Lead; Synaptic plasticity; Protein kinase C (Hussain, R.J. (121) 243)

Motoneuron
In situ hybridization; Serotonin receptor; Postnatal development; 5,7-Dihydroxytryptamine (Talley, E.M. (122) 1)

Motor behaviour
Iron administration; Postnatal; Habituation; Radial maze learning; Basal ganglia; NMRI mouse (Fredriksson, A. (119) 65)

Motor cortex
Development; Phencyclidine; Dizocilpine; Immediate early gene; Locomotion; Posterior retrosplenial cortex; c-Fos; Schizophrenia (Jacobs, P.S. (122) 91)

Motor endplate
Skeletal muscle; Myosin; Fiber types; Multiple innervation (Huckstorf, B.L. (119) 169)

Mouse
Spiral ganglion neuron; Spontaneous firings; Postnatal development; Potassium channels; In vitro (Lin, X. (119) 297)

Fringe; Cerebral cortex; Neurogenesis; Cell division; Subventricular zone (Ishii, Y. (119) 307)

Basal forebrain cholinergic system; Postnatal development; Cholinergic projection; Frontal cortex (Villalobos, J. (120) 99)

Enhancer; Hindbrain; *Hox* gene; Rhombomere; Segmentation; Silencer (Fox, E.A. (120) 151)

Mouse embryo
Forelimb innervation; Sensory neuron number; Postnatal neuron addition; Cell death (Berg, J.S. (125) 21)

Mouse model
Down syndrome; Trisomy 21; *mSim2*; *mSim1*; Overexpression (Vialard, F. (121) 73)

mRNA
Connexin; RT–PCR; Postnatal development; Neocortex; Gap junction (Prime, G. (119) 111)

Nitric oxide synthase; Type I NOS; Sheep

fetus; Brain; Catalytic activity; Splice variants; Protein variants (Massmann, G.A. (124) 141)

mRNA expression
Bdm2; Brain development; cDNA cloning; In situ hybridization (Nishinaka, N. (120) 57)

mSim1
Down syndrome; Mouse model; Trisomy 21; *mSim2*; Overexpression (Vialard, F. (121) 73)

mSim2
Down syndrome; Mouse model; Trisomy 21; *mSim1*; Overexpression (Vialard, F. (121) 73)

Multiple innervation
Skeletal muscle; Myosin; Fiber types; Motor endplate (Huckstorf, B.L. (119) 169)

Muscarinic receptors
Correlation; Early exposure; Eight-arm maze; Inositol phosphate formation; Heroin; Neural grafting; Phenobarbital (Steingart, R.A. (122) 125)

Myelin
Immunopanned pro-oligodendroglia; Defined medium; Tissue culture (Ingraham, C.A. (125) 1)

Myelination
Corpus callosum; Rat; Sex difference (Nuñez, J.L. (120) 87)

Optic nerve; Glial cell; CNS development; Neuron–glia interaction; Tissue culture (Knapp, P.E. (125) 89)

Myosin
Skeletal muscle; Fiber types; Motor endplate; Multiple innervation (Huckstorf, B.L. (119) 169)

Myotube
Protease inhibitor; Thrombin; Acetylcholine receptor; Aggregate; Cell culture (Davenport, R.W. (122) 119)

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NADPH-diaphorase
Retina; Amacrine neuron; Photoreceptor; Nitrergic network (Ríos, H. (120) 17)

Naltrindole
Opioid receptor; Dependence; Withdrawal behavior; CTOP; Nor-BNI (McPhie, A.A. (124) 73)

Necrosis
Postnatal; Calcium; Hypoxia; Oxygen; *N*-Methyl-D-aspartate; Electrophysiology; Immunohistochemistry; Morphology (Marks, J.D. (124) 101

Neocortex
Connexin; RT–PCR; Postnatal development; mRNA; Gap junction (Prime, G. (119) 111)

Growth; Feline brain; Morphometric study; White matter (Villablanca, J.R. (122) 11)

Spontaneous action potential; Extracellular recording; Explant culture; Activity blockade (Echevarría, D. (123) 151)

Neonatal
Sprouting; Plasticity; Nerve injury; Spinal cord; C-*fos* (Shortland, P. (119) 243)

Corpus callosum; Development; Feminization; Ovarian hormone; Estrogen (Bimonte, H.A. (122) 149)

Rat; Cerebral; Hypoxia–ischemia; Brain damage; Mitochondria; Caspase-3 (Puka-Sundvall, M. (125) 43)

Neonatal isolation stress
Non-genomic; Neurosteroid; Progestin; Hypothalamic pituitary adrenal axis (Kehoe, P. (124) 133)

Neonatal rat
MK-801; Head shaking; DOI; NMDA receptor (Kurumaji, A. (124) 125)

Hypoxia-ischemia; Brain damage; Mitochondria; Calcium; Oxalate–pyroantimonate; Electron microscopy; Apoptosis (Puka-Sundvall, M. (125) 31)

Glutathione; Cerebral hypoxia–ischemia; Mitochondria; Oxidative stress; Amino acid (Wallin, C. (125) 51)

Neonate
Fetus; Brain; Mitochondria; Developmental change (Nakai, A. (121) 67)

Hypoxia-ischemia; Neuronal nitric oxide synthase; Brain (Muramatsu, K. (123) 119)

Neostriatum
Songbird; Auditory cortex analogue; Plasticity; Brain mapping; Auditory maturation (Gehr, D.D. (125) 153)

Nerve growth factor
Sympathetic; Differentiation; Adrenal; Neuropeptide; Neuropeptide Y (Medina-Ortiz, W.E. (119) 155)

Urinary bladder; Neurotrophic factor; Neurotrophin-3; Neurotrophin-4; Inflammation; Ontogeny (Vizzard, M.A. (119) 217)

Gene expression; Development; Maternal separation; Central nervous system; Rat (Cirulli, F. (123) 129)

Nerve injury
Sprouting; Plasticity; Neonatal; Spinal cord; C-*fos* (Shortland, P. (119) 243

Nerve transection
Olfactory; Retinoic acid; Behavior; Recovery (Yee, K.K. (124) 129)

Nestin
Cell cycle kinetics; Cerebral cortex; Microtubule associated protein; Neurofilament; Subventricular zone; Ventricular zone (Jacobs, J.S. (122) 67)

Neural crest
Islet-1; Hu antigen; Differentiation marker; DRG (Cui, S. (121) 209)

Chick Sox10; Glial cells; Otic vesicle (Cheng, Y.-C. (121) 233)

Neural crest cells
Glial growth factor; DNA fragmentation; Apoptosis; Migration; BrdU incorporation (Bannerman, P.G. (124) 93)

Neural grafting
Correlation; Early exposure; Eight-arm maze; Inositol phosphate formation; Heroin; Muscarinic receptors; Phenobarbital (Steingart, R.A. (122) 125)

Choline transporter; Correlation; Early exposure; Eight-arm maze; Heroin; Phenobarbital; Protein kinase C (Steingart, R.A. (125) 9)

Neural organization
Trohpic factors; Hypothalamus; Cerebral cortex; Neurodevelopmental disorders (Kellogg, C.K. (121) 157)

Neural plasticity
Sensory deprivation (Vallejo, L.A. (122) 35)

Neural progenitor
Mitogen-activated protein kinase; MEK1; Epidermal growth factor; Basic fibroblast growth factor; Proliferation (Learish, R.D. (122) 97)

Neural sex dimorphism
Raphe nucleus; Serotonergic system; Golgy–Cox study (Cordero, M.E. (124) 43)

Neural tube
Encephalization; Holoprosencephaly; Primitive neuroepithelium (Sahir, N. (121) 213)

Neurite outgrowth
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Neurodegeneration
Bcl-2; Apoptosis; Neurodevelopment; Aging (Jarskog, L.F. (119) 225)

Neurodevelopment
Bcl-2; Apoptosis; Neurodegeneration; Aging (Jarskog, L.F. (119) 225)

Neurodevelopmental disorders
Trohpic factors; Hypothalamus; Cerebral cortex; Neural organization (Kellogg, C.K. (121) 157

Neurofilament
SMI-32; Monkey striate cortex; Post-natal development; Immunohistochemistry; Magnocellular vs. parvocellular (Kogan, C.S. (119) 85)

Cell cycle kinetics; Cerebral cortex; Microtubule associated protein; Nestin; Subventricular zone; Ventricular zone (Jacobs, J.S. (122) 67)

Neurogenesis
Fringe; Mouse; Cerebral cortex; Cell division; Subventricular zone (Ishii, Y. (119) 307)

Olfactory bulb; PACAP; Proliferation; Rostral migratory stream; Subventricular zone (Jaworski, D.M. (120) 27)

Olfactory epithelium; Horizontal basal cell; Cell line; Retinoic acid (Satoh, M. (121) 219)

Adult mouse vomeronasal organ; BrdU; Migration; B50-GAP43; Stathmin (Giacobini, P. (123) 33)

Brain development; Neuroprotection; Hematopoiesis; Fetus (Dame, C. (125) 69)

Neuron
Angiogenesis; Vascular endothelial growth factor; Hypoxia; Glia; Stabilization (Ogunshola, O.O. (119) 139)

Neuronal cell line
Embryonal carcinoma; Neuropeptide conversion; Proprotein convertase; Neuropeptide release; Secretory granule protein (Cadet, N. (120) 211)

Neuronal circuit
Synaptogenesis; Spontaneous synaptic current; Evoked synaptic current; Autaptic response; Rat hippocampus (Liu, Q.-Y. (120) 223)

Neuronal counts
Methotrexate; Prenatal; Seizure susceptibility; Entorhinal cortex (Kábová, R. (123) 91)

Neuronal death
Whole-mounted retina; Tyrosine hydroxylase; Weaver mouse; Retinopetal fibres; Development; Parkinson's disease (Simon, A. (121) 113)

Lithium; Chicken embryo; Heart rate; Ciliary ganglion; Brain ETO; Gephyrin (Ikonomov, O.C. (123) 13)

Apoptosis; Brainstem; Cerebellum; Cortex; Thalamus (Mooney, S.M. (123) 103)

Neuronal development
Ethanol; Hippocampal cell culture; Fetal Alcohol syndrome; Process outgrowth; Synaptogenesis (Yanni, P.A. (120) 233)

Apoptosis; Caspase-9; Bcl-xL; Cytochrome c; Ced-3; Ced-9 (Fujita, E. (122) 135

Neuronal maturity
Retinal ganglion cell; Cytochrome oxidase histochemistry; Synaptogenesis; Postnatal development; Optical densitometry (Govindaiah (124) 117)

Neuronal migration
Immature glia; Axonal growth; S-100; Immunohistochemistry (Horie, M. (121) 197)

Neuronal nitric oxide synthase
Hypoxia-ischemia; Neonate; Brain (Muramatsu, K. (123) 119)

Neuronal survival
Basic fibroblast growth factor; Mitogen-activated protein kinase; Rat cortical neuron; Culture (Abe, K. (122) 81)

Neuron–glia interaction
Optic nerve; Myelination; Glial cell; CNS development; Tissue culture (Knapp, P.E. (125) 89)

Neuropeptide
Sympathetic; Nerve growth factor; Differentiation; Adrenal; Neuropeptide Y (Medina-Ortiz, W.E. (119) 155)

Neuropeptide conversion
Embryonal carcinoma; Neuronal cell line; Proprotein convertase; Neuropeptide release; Secretory granule protein (Cadet, N. (120) 211)

Neuropeptide release
Embryonal carcinoma; Neuronal cell line; Neuropeptide conversion; Proprotein convertase; Secretory granule protein (Cadet, N. (120) 211)

Neuropeptide Y
Sympathetic; Nerve growth factor; Differentiation; Adrenal; Neuropeptide (Medina-Ortiz, W.E. (119) 155)

Corpus callosum; Somatostatin; Immunocytochemistry; Development; Rat (Ding, S.-L. (124) 59)

Neuroprotection
Brain development; Neurogenesis; Hematopoiesis; Fetus (Dame, C. (125) 69)

Neurosteroid
Hippocampus; Ventromedial nucleus; Arcuate nucleus (Davis, A.M. (119) 127)

Fetus; 5α-Reductase; P450scc; Allopregnanolone; $GABA_A$ receptor; Cerebellum (Petratos, S. (123) 81)

Neonatal isolation stress; Non-genomic; Progestin; Hypothalamic pituitary adrenal axis (Kehoe, P. (124) 133)

Neuroteratology
Clonidine; Scopolamine; Respiratory pattern; Sleep (Thomas, A.J. (120) 181

Neurotransmitter
Acetylcholine; Acetylcholinesterase; Choline acetyltransferase; Nicotine; Receptor subunit (Torrão, A.S. (124) 81)

Neurotrophic factor
Spinal cord regeneration; Limb regeneration; Amphibia; Culture (Bauduin, B. (119) 47)

Urinary bladder; Nerve growth factor; Neurotrophin-3; Neurotrophin-4; Inflammation; Ontogeny (Vizzard, M.A. (119) 217)

Neurotrophin-3
Urinary bladder; Neurotrophic factor; Nerve growth factor; Neurotrophin-4; Inflammation; Ontogeny (Vizzard, M.A. (119) 217)

Neurotrophin-4
Urinary bladder; Neurotrophic factor; Nerve growth factor; Neurotrophin-3; Inflammation; Ontogeny (Vizzard, M.A. (119) 217)

Neurotrophins
Avidin–biotin complex; Telencephalon; Vocal learning (Johnson, F. (120) 113)

Neurite outgrowth; Cytoskeleton (Labelle, C. (123) 1)

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Prostaglandin transport; Prostaglandin catabolism; Fetus; Adult; Birth; Cerebrospinal fluid; Blood–brain barrier; Pregnancy (Krunic, N. (119) 11)

Fetus; Adult; Choroid plexus; Development; Sheep; Prostaglandin catabolism; Birth (Krunic, N. (121) 145)

NGF
Fetal alcohol syndrome; Hippocampus; Septum; Cerebellum; Cortex; Striatum; BDNF; NT-3 (Heaton, M.B. (121) 97)

Nicotine
Adenylyl cyclase; β-Adrenergic receptor; Cholinergic receptor; Environmental tobacco smoke; Heart; Lung; Tobacco (Slotkin, T.A. (124) 53)

Acetylcholine; Acetylcholinesterase; Choline acetyltransferase; Neurotransmitter; Receptor subunit (Torrão, A.S. (124) 81)

Nitrergic network
Retina; NADPH-diaphorase; Amacrine neuron; Photoreceptor (Ríos, H. (120) 17)

Nitric oxide
Development; Retinocollicular projection; Nitric oxide synthase; Superior colliculus; Refinement (Wu, H.H. (120) 105)

IMHV; Chick; Synaptic plasticity; Long-term depression (Barcellos, C.K. (121) 79)

Cell cultures; Rats; Cyclic guanosine 3′,5′-monophosphate (cGMP) (Teunissen, C.E. (125) 99

Nitric oxide synthase
Nitric oxide; Development; Retinocollicular projection; Superior colliculus; Refinement (Wu, H.H. (120) 105)

Type I NOS; Sheep fetus; Brain; mRNA; Catalytic activity; Splice variants; Protein variants (Massmann, G.A. (124) 141)

NMDA
Human spinal cord; Development; AMPA; Kainate; MK-801; Receptor autoradiography and Western blot (Åkesson, E. (119) 55)

NMDA receptor
MK-801; Neonatal rat; Head shaking; DOI (Kurumaji, A. (124) 125)

NMRI mouse
Iron administration; Postnatal; Motor behaviour; Habituation; Radial maze learning; Basal ganglia (Fredriksson, A. (119) 65)

Non-genomic
Neonatal isolation stress; Neurosteroid; Progestin; Hypothalamic pituitary adrenal axis (Kehoe, P. (124) 133)

Non-radioactive in situ hybridization histochemistry
Glutamate receptor; Vestibular nucleus; Development (Sans, N.A. (123) 41)

Noradrenaline
Brain development; Aging; Serotonin; Dopamine; Transporter density; Striatum; Rat brain (Moll, G.H. (119) 251)

Brainstem; Birth; Locus ceruleus; Catecholamine; Tyrosine hydroxylase (Wickström, R. (123) 53)

***nor*-Binaltorphimine**
U-50,488; Ontogeny; Locomotor activity; Substantia nigra pars reticulata; κ-Opioid (Collins, R.L. (119) 97)

Nor-BNI
Opioid receptor; Dependence; Withdrawal behavior; CTOP; Naltrindole (McPhie, A.A. (124) 73)

NT-3
Fetal alcohol syndrome; Hippocampus; Septum; Cerebellum; Cortex; Striatum; NGF; BDNF (Heaton, M.B. (121) 97)

Nucleus tractus solitarius
Emetic reflex; Vomiting; *Suncus murinus*; Brainstem; Vagus (Andrews, P. (121) 29

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OBCAM
Opioid-binding cell adhesion molecule; IgLON; Rat; Development; Immunohistochemistry; Distribution; Localization (Hachisuka, A. (122) 183)

Olfactory
Nerve transection; Retinoic acid; Behavior; Recovery (Yee, K.K. (124) 129)

Olfactory bulb
Development; Gene expression; Bcl-2; Sexual differentiation (Wong, C.C. (119) 187)

Neurogenesis; PACAP; Proliferation; Rostral migratory stream; Subventricular zone (Jaworski, D.M. (120) 27)

Olfactory epithelium
Horizontal basal cell; Cell line; Neurogenesis; Retinoic acid (Satoh, M. (121) 219)

Ontogenesis
Alpha-2 adrenoceptor; Clonidine; Amygdaloid kindling; Rat (Yoshioka, S.-i. (119) 283)

Ontogeny
Development; Serotonin, 5-HT; Volume transmission; Drug abuse; High-affinity uptake; Thalamocortical projection; Somatosensory; Barrel formation (Zhou, F.C. (119) 33)

U-50,488; *nor*-Binaltorphimine; Locomotor activity; Substantia nigra pars reticulata; κ-Opioid (Collins, R.L. (119) 97)

FMRFamide; Zebrafish; Sterlet; Immunohistochemistry (Pinelli, C. (119) 195)

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G-protein expression; β-adrenoceptor (Zeiders, J.L. (120) 125)

Schizophrenia; Development; Haloperidol (Kinkead, B. (124) 1)

Open-field behavior
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Opiates
Epilepsy; Prenatal drug exposure; Development; Gender (Schindler, C.J. (121) 119)

κ-Opioid
U-50,488; *nor*-Binaltorphimine; Ontogeny; Locomotor activity; Substantia nigra pars reticulata (Collins, R.L. (119) 97)

Opioid
Preoptic area; Parental behavior; Medial preoptic nucleus (Gulledge, C.C. (119) 269

Opioid-binding cell adhesion molecule
OBCAM; IgLON; Rat; Development; Immunohistochemistry; Distribution; Localization (Hachisuka, A. (122) 183)

Opioid peptide
Cannabinoid; Δ^9-Tetrahydrocannabinol; Prenatal exposure; Proenkephalin gene expression (Pérez-Rosado, A. (120) 77)

Opioid receptor
Dependence; Withdrawal behavior; CTOP; Naltrindole; Nor-BNI (McPhie, A.A. (124) 73)

Optical densitometry
Retinal ganglion cell; Cytochrome oxidase histochemistry; Synaptogenesis; Postnatal development; Neuronal maturity (Govindaiah (124) 117)

Optic nerve
Axon topography; Morphometry; Age-related fiber order (Drenhaus, U. (121) 35)

Myelination; Glial cell; CNS development; Neuron–glia interaction; Tissue culture (Knapp, P.E. (125) 89)

Organizational effects
Corpus callosum; Development; Feminization; Ovarian hormones; Sexual differentiation (Bimonte, H.A. (121) 169)

Organophosphate insecticides
Adenylyl cyclase; β-Adrenoceptor; Chlorpyrifos; Development; Glucagon receptor; Liver (Auman, J.T. (121) 19)

Organotypic slice culture
Caspase-3 (CPP32); Apoptosis; External granular layer neuron; Cerebellar development; Cleavage site-directed antibody (Tanaka, M. (121) 223)

Osmolality
Rat fetus; c-*fos*; Hypothalamus (Xu, Z. (121) 11)

Otic vesicle
Chick Sox10; Neural crest; Glial cells (Cheng, Y.-C. (121) 233)

Otocyst
Apoptosis; Rat; Development; Cochlea; TUNEL (Nikolic, P. (119) 75)

Ovarian hormone
Corpus callosum; Development; Feminization; Organizational effects; Sexual differentiation (Bimonte, H.A. (121) 169)

Corpus callosum; Development; Feminization; Estrogen; Neonatal (Bimonte, H.A. (122) 149)

Overexpression
Down syndrome; Mouse model; Trisomy 21; *mSim2*; *mSim1* (Vialard, F. (121) 73

Oxalate–pyroantimonate
Neonatal rat; Hypoxia-ischemia; Brain damage; Mitochondria; Calcium; Electron microscopy; Apoptosis (Puka-Sundvall, M. (125) 31)

Oxidative stress
Chlorpyrifos; Differentiation; PC12 cells (Crumpton, T.L. (121) 189)

Glutathione; Cerebral hypoxia–ischemia; Mitochondria; Neonatal rat; Amino acid (Wallin, C. (125) 51)

Oxygen
Postnatal; Calcium; Hypoxia; *N*-Methyl-D-aspartate; Electrophysiology; Immunohistochemistry; Morphology; Necrosis (Marks, J.D. (124) 101)

*P*450RAI
CYP26; Human prenatal; Brain development; Retinoid (Trofimova-Griffin, M.E. (120) 7)

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P450scc
Fetus; Neurosteroid; 5α-Reductase; Allopregnanolone; $GABA_A$ receptor; Cerebellum (Petratos, S. (123) 81)

PACAP
Neurogenesis; Olfactory bulb; Proliferation; Rostral migratory stream; Subventricular zone (Jaworski, D.M. (120) 27)

Paraventricular nucleus
Hypothalamic NPY content; Unbalanced diet; Growth; Insulin; Long-Evans rat (Kozak, R. (125) 75)

Parental behavior
Preoptic area; Opioid; Medial preoptic nucleus (Gulledge, C.C. (119) 269)

Parkinson's disease
Whole-mounted retina; Tyrosine hydroxylase; Weaver mouse; Retinopetal fibres; Development; neuronal death (Simon, A. (121) 113)

Patch clamp
Bag cell; Voltage-gated current; Sexual immaturity; *Aplysia californica* (Fieber, L.A. (122) 47)

Dorsal root ganglion; GABA receptor; Pentobarbital; Cl^- channel; Embryonic and adult human neurons; Fluctuation analysis; Conductance (Valeyev, A.Y. (124) 137)

Patch clamp electrophysiology
Antisense oligonucleotide; BK channel; *rslo* (Muller, Y.L. (120) 135

Pathway formation
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Pax-6
Rat *Small eye* (*rSey*); 5′-Bromodeoxyuridine (BrdU); Terminal deoxynucleotidyl transferase (TdT)-mediated dUTP-biotin nick end labeling (TUNEL); Highly polysialylated NCAM (PSA-NCAM); Cerebral cortex (Fukuda, T. (120) 65)

PC12 cells
Chlorpyrifos; Differentiation; Oxidative stress (Crumpton, T.L. (121) 189)

Pentobarbital
Dorsal root ganglion; GABA receptor; Cl^- channel; Embryonic and adult human neurons; Patch clamp; Fluctuation analysis; Conductance (Valeyev, A.Y. (124) 137)

Peptide receptor
Rod bipolar cell; Amacrine cell; Development (Fontanesi, G. (123) 67)

Periaqueductal gray
Lesion; Ultrasonic vocalization; Analgesia; Immobility; Rat (Wiedenmayer, C.P. (120) 191)

PET
FDG; Monkey; Conscious; Development; Glucose metabolism (Moore, A.H. (120) 141)

Phencyclidine
Development; Dizocilpine; Immediate early gene; Locomotion; Motor cortex; Posterior retrosplenial cortex; c-Fos; Schizophrenia (Jacobs, P.S. (122) 91)

Phenobarbital
Correlation; Early exposure; Eight-arm maze; Inositol phosphate formation; Heroin; Muscarinic receptors; Neural grafting (Steingart, R.A. (122) 125)

Choline transporter; Correlation; Early exposure; Eight-arm maze; Heroin; Neural grafting; Protein kinase C (Steingart, R.A. (125) 9)

Phosphatidylcholine-specific phospholipase D
Brain; Glia; Rat; In situ hybridization histochemistry (Saito, S. (120) 41)

Phosphatidylserine
Fetal alcohol syndrome; Annexin-V; JNK; ERK; MAP kinase (McAlhany Jr., R.E. (119) 209)

Photoreceptor
Retina; NADPH-diaphorase; Amacrine neuron; Nitrergic network (Ríos, H. (120) 17

Plasticity
Sprouting; Neonatal; Nerve injury; Spinal cord; C-*fos* (Shortland, P. (119) 243)

Choline; Prenatal; Hippocampus; Acetylcholine; Development (Montoya, D.A.C. (123) 25)

Songbird; Neostriatum; Auditory cortex analogue; Brain mapping; Auditory maturation (Gehr, D.D. (125) 153)

Polyamine–stress–response
Adrenal gland; Dexamethasone; Liver; Open-field behavior; Rat brain development; Thymus (Gilad, V.H. (120) 255)

Posterior retrosplenial cortex
Development; Phencyclidine; Dizocilpine; Immediate early gene; Locomotion; Motor cortex; c-Fos; Schizophrenia (Jacobs, P.S. (122) 91)

Postnatal
Iron administration; Motor behaviour; Habituation; Radial maze learning; Basal ganglia; NMRI mouse (Fredriksson, A. (119) 65)

Cell culture; Fetal; Defined media; MAP2; Immunocytochemistry (Kivell, B.M. (120) 199)

Calcium; Hypoxia; Oxygen; *N*-Methyl-D-aspartate; Electrophysiology; Immunohistochemistry; Morphology; Necrosis (Marks, J.D. (124) 101)

Postnatal development
SMI-32; Monkey striate cortex; Neurofilament; Immunohistochemistry; Magnocellular vs. parvocellular (Kogan, C.S. (119) 85)

Connexin; RT–PCR; Neocortex; mRNA; Gap junction (Prime, G. (119) 111)

Spiral ganglion neuron; Spontaneous firings; Potassium channels; In vitro; Mouse (Lin, X. (119) 297)

Basal forebrain cholinergic system; Cholinergic projection; Frontal cortex; Mouse (Villalobos, J. (120) 99)

In situ hybridization; Serotonin receptor; Motoneuron; 5,7-Dihydroxytryptamine (Talley, E.M. (122) 1)

Hippocampus; Medial septum; Diagonal band; Acetylcholine release presynaptic μ-opioid receptors; Presynaptic δ-opioid receptors; Choline acetyltransferase (Gazyakan, E. (123) 135)

Retinal ganglion cell; Cytochrome oxidase histochemistry; Synaptogenesis; Optical densitometry; Neuronal maturity (Govindaiah (124) 117)

Somatostatin; c-ret; Preprotachykinin A; Rat

sensory neuron; In situ hybridization (Kashiba, H. (125) 147)

Postnatal neuron addition
Forelimb innervation; Sensory neuron number; Mouse embryo; Cell death (Berg, J.S. (125) 21)

Potassium channels
Spiral ganglion neuron; Spontaneous firings; Postnatal development; In vitro; Mouse (Lin, X. (119) 297)

Pregnancy
Prostaglandin transport; Prostaglandin catabolism; Fetus; Newborn; Adult; Birth; Cerebrospinal fluid; Blood–brain barrier (Krunic, N. (119) 11)

Prenatal
Choline; Hippocampus; Acetylcholine; Plasticity; Development (Montoya, D.A.C. (123) 25)

Methotrexate; Seizure susceptibility; Neuronal counts; Entorhinal cortex (Kábová, R. (123) 91)

Prenatal drug exposure
Epilepsy; Opiates; Development; Gender (Schindler, C.J. (121) 119)

Prenatal exposure
Cannabinoid; Δ^9-Tetrahydrocannabinol; Proenkephalin gene expression; Opioid peptide (Pérez-Rosado, A. (120) 77)

Preoptic area
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Preprotachykinin A
Somatostatin; c-ret; Rat sensory neuron; Postnatal development; In situ hybridization (Kashiba, H. (125) 147)

Prepubertal rat
Estrogen receptor alpha; Estrogen receptor beta; Hippocampus; Digoxigenin in situ hybridization (Orikasa, C. (120) 245)

Presynaptic δ-opioid receptors
Hippocampus; Medial septum; Diagonal band; Acetylcholine release presynaptic μ-opioid receptors; Postnatal development; Choline acetyltransferase (Gazyakan, E. (123) 135)

Primary afferent
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Process outgrowth
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Proenkephalin gene expression
Cannabinoid; Δ^9-Tetrahydrocannabinol; Prenatal exposure; Opioid peptide (Pérez-Rosado, A. (120) 77)

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Mitogen-activated protein kinase; MEK1; Neural progenitor; Epidermal growth factor; Basic fibroblast growth factor (Learish, R.D. (122) 97)

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Pro-protein convertase PC1
TRH; Pro-TRH; Hypothalamus; Laminin; Fibronectin; Vitronectin; Tenascin-C (Niquet, J. (120) 49)

Proprotein convertase
Embryonal carcinoma; Neuronal cell line; Neuropeptide conversion; Neuropeptide release; Secretory granule protein (Cadet, N. (120) 211)

Prostaglandin catabolism
Prostaglandin transport; Fetus; Newborn; Adult; Birth; Cerebrospinal fluid; Blood–brain barrier; Pregnancy (Krunic, N. (119) 11)

Fetus; Newborn; Adult; Choroid plexus; Development; Sheep; Birth (Krunic, N. (121) 145)

Prostaglandin transport
Prostaglandin catabolism; Fetus; Newborn; Adult; Birth; Cerebrospinal fluid; Blood–brain barrier; Pregnancy (Krunic, N. (119) 11)

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G-protein expression
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Protein kinase C
Lead; Synaptic plasticity; Mossy fiber-CA3 (Hussain, R.J. (121) 243)

Choline transporter; Correlation; Early exposure; Eight-arm maze; Heroin; Neural grafting; Phenobarbital (Steingart, R.A. (125) 9)

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Purkinje cell
Cell–cell interaction; Cell migration; Development of cerebellum; HNK-1 carbohydrate; Sulfoglucuronyl carbohydrate binding protein; Molecular layer; External granule cell layer; Internal granule cell layer (Zhao, Z. (120) 165)

Immunocytochemistry; Ataxic mutant mouse (Jeong, Y.-G. (125) 61)

Purkinje neuron
Development; Sodium pump; Confocal microscopy; Image analysis (Biser, P.S. (123) 165)

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Radial maze learning
Iron administration; Postnatal; Motor behaviour; Habituation; Basal ganglia; NMRI mouse (Fredriksson, A. (119) 65)

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Borna; Development; Monoamine (Pletnikov, M.V. (119) 179)

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Phosphatidylcholine-specific phospholipase D; Brain; Glia; In situ hybridization histochemistry (Saito, S. (120) 41)

Corpus callosum; Myelination; Sex difference (Nuñez, J.L. (120) 87)

Periaqueductal gray; Lesion; Ultrasonic vocalization; Analgesia; Immobility (Wiedenmayer, C.P. (120) 191

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Proliferative vitreoretinopathy (PVR); Fast protein liquid chromatography; Growth factor; Affinity assay (Jaynes, C.D. (120) 267)

Somatomotor cortex; Development; Culture; Axonal outgrowth; Arealization; Regionalization (Mouveroux, J.M.P. (122) 59)

Opioid-binding cell adhesion molecule; OBCAM; IgLON; Development; Immunohistochemistry; Distribution; Localization (Hachisuka, A. (122) 183)

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Development; Surgery (Nuñez, J.L. (124) 121)

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Rat brain development
Adrenal gland; Dexamethasone; Liver; Polyamine–stress–response; Open-field behavior; Thymus (Gilad, V.H. (120) 255)

Rat cortical neuron
Basic fibroblast growth factor; Mitogen-activated protein kinase; Neuronal survival; Culture (Abe, K. (122) 81)

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Rat fetus
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Rat hippocampus
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Rat sensory neuron
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Rat *Small eye* (*rSey*)
Pax-6; 5′-Bromodeoxyuridine (BrdU); Terminal deoxynucleotidyl transferase (TdT)-mediated dUTP-biotin nick end labeling (TUNEL); Highly polysialylated NCAM (PSA-NCAM); Cerebral cortex (Fukuda, T. (120) 65)

Receptor autoradiography and Western blot
Human spinal cord; Development; NMDA; AMPA; Kainate; MK-801 (Åkesson, E. (119) 55)

Receptor subunit
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Recovery
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5α-Reductase
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Rat; Somatomotor cortex; Development; Culture; Axonal outgrowth; Arealization (Mouveroux, J.M.P. (122) 59)

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Clonidine; Scopolamine; Neuroteratology; Sleep (Thomas, A.J. (120) 181)

c-ret
Somatostatin; Preprotachykinin A; Rat sensory neuron; Postnatal development; In situ hybridization (Kashiba, H. (125) 147)

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Retinal pigment epithelium
Retina; Blood–retinal barrier; Tight junction; Intercellular junction (Ban, Y. (119) 259)

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Retinoic acid
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Retrograde labeling
Telencephalon; Hindbrain; Sexual differentiation; Vocal learning (Johnson, F. (121) 253)

Retrorubral field
Weaver mutant mouse; Dopaminergic neuron loss; Tyrosine hydroxylase immunohistochemistry; [^{3}H] Thymidine autoradiography; Substantia nigra pars compacta; Ventral tegmental area; Interfascicular nucleus (Martí, J. (122) 165)

Weaver mutant mouse; Tyrosine hydroxylase immunohistochemistry; [^{3}H] Thymidine autoradiography; Substantia nigra pars compacta; Ventral tegmental area; Interfascicular nucleus (Martí, J. (122) 173)

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S100A6
S100B; Calcyclin; Human cerebral cortex; Fetal cortex; Aged cortex; Protein expression (Tiu, S.C. (119) 159)

S100B
S100A6; Calcyclin; Human cerebral cortex; Fetal cortex; Aged cortex; Protein expression (Tiu, S.C. (119) 159)

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Schizophrenia
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Development; Haloperidol; Ontogeny (Kinkead, B. (124) 1)

Scopolamine
Clonidine; Respiratory pattern; Neuroteratology; Sleep (Thomas, A.J. (120) 181)

SDN-POA
Sexual dimorphism; Hypothalamus; AVPV; Testosterone; Flutamide; Rat (Lund, T.D. (120) 261)

Secretory granule protein
Embryonal carcinoma; Neuronal cell line; Neuropeptide conversion; Proprotein convertase; Neuropeptide release (Cadet, N. (120) 211)

Segmentation
Enhancer; Hindbrain; *Hox* gene; Mouse; Rhombomere; Silencer (Fox, E.A. (120) 151)

Seizure
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Seizure susceptibility
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Adenylyl cyclase, development of β-adrenoceptor control; β-Adrenoceptor, development; Development of cardiac adenylyl cyclase; Heart, development of β-adrenoceptor signaling; Isoproterenol, effects on adenylyl cyclase (Zeiders, J.L. (120) 125)

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Sensory ganglia
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Sensory neuron number
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Septum
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Serotonergic system
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Serotonin
Brain development; Aging; Noradrenaline; Dopamine; Transporter density; Striatum; Rat brain (Moll, G.H. (119) 251)

5-HT_{1B} receptor; Transgenic knockout mouse; Somatosensory cortex; Barrel; Cytochrome oxidase (Boylan, C.B. (120) 91)

Development; c-Fos; Circadian rhythms; Suprachiasmatic nucleus (Ferguson, S.A. (121) 229)

Serotonin, 5-HT
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Serotonin receptor
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Sexual differentiation
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Corpus callosum; Development; Feminization; Ovarian hormones; Organizational effects (Bimonte, H.A. (121) 169)

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Nitric oxide synthase; Type I NOS; Brain; mRNA; Catalytic activity; Splice variants; Protein variants (Massmann, G.A. (124) 141)

Silencer
Enhancer; Hindbrain; *Hox* gene; Mouse; Rhombomere; Segmentation (Fox, E.A. (120) 151)

In situ hybridization
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Serotonin receptor; Motoneuron; Postnatal development; 5,7-Dihydroxytryptamine (Talley, E.M. (122) 1)

Somatostatin; c-ret; Preprotachykinin A; Rat sensory neuron; Postnatal development (Kashiba, H. (125) 147)

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Skeletal muscle
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Utrophin; Dystrophin; Dystrophin glycoprotein complex; Rat embryo (Lin, S. (119) 289)

Sleep
Clonidine; Scopolamine; Respiratory pattern; Neuroteratology (Thomas, A.J. (120) 181)

SMI-32
Monkey striate cortex; Post-natal development; Neurofilament; Immunohistochemistry; Magnocellular vs. parvocellular (Kogan, C.S. (119) 85)

Sodium pump
Purkinje neuron; Development; Confocal microscopy; Image analysis (Biser, P.S. (123) 165)

Somatomotor cortex
Rat; Development; Culture; Axonal outgrowth; Arealization; Regionalization (Mouveroux, J.M.P. (122) 59)

Somatosensory
Ontogeny; Development; Serotonin, 5-HT; Volume transmission; Drug abuse; High-affini-

ty uptake; Thalamocortical projection; Barrel formation (Zhou, F.C. (119) 33)

Somatosensory cortex
Serotonin; 5-HT_{1B} receptor; Transgenic knockout mouse; Barrel; Cytochrome oxidase (Boylan, C.B. (120) 91)

Somatostatin
Corpus callosum; Neuropeptide Y; Immunocytochemistry; Development; Rat (Ding, S.-L. (124) 59)

c-ret; Preprotachykinin A; Rat sensory neuron; Postnatal development; In situ hybridization (Kashiba, H. (125) 147)

Songbird
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Spinal cord regeneration
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Spiral ganglion neuron
Spontaneous firings; Postnatal development; Potassium channels; In vitro; Mouse (Lin, X. (119) 297)

Splice variants
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Aging; Biotransformation; Dopamine; L-DOPA; Microdialysis (Shui, H.-A. (121) 123)

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Substantia gelatinosa
Primary afferent; Dorsal root ganglion; C fibre; Spinal cord; Development (Torsney, C. (121) 55)

Substantia nigra
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Substantia nigra pars compacta
Weaver mutant mouse; Dopaminergic neuron loss; Tyrosine hydroxylase immunohistochemistry; [^{3}H] Thymidine autoradiography; Retrorubral field; Ventral tegmental area; Interfascicular nucleus (Martí, J. (122) 165)

Weaver mutant mouse; Tyrosine hydroxylase immunohistochemistry; [^{3}H] Thymidine autoradiography; Retrorubral field; Ventral tegmental area; Interfascicular nucleus (Martí, J. (122) 173)

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U-50,488; *nor*-Binaltorphimine; Ontogeny; Locomotor activity; κ-Opioid (Collins, R.L. (119) 97)

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Sulfoglucuronyl carbohydrate binding protein
Cell–cell interaction; Cell migration; Development of cerebellum; HNK-1 carbohydrate; Purkinje cell; Molecular layer; External granule cell layer; Internal granule cell layer (Zhao, Z. (120) 165)

Suncus murinus
Emetic reflex; Vomiting; Brainstem; Vagus; Nucleus tractus solitarius (Andrews, P. (121) 29)

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Nitric oxide; Development; Retinocollicular projection; Nitric oxide synthase; Refinement (Wu, H.H. (120) 105)

Suprachiasmatic nucleus
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Development; Serotonin; c-Fos; Circadian rhythms (Ferguson, S.A. (121) 229)

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Synaptogenesis
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Ethanol; Hippocampal cell culture; Neuronal development; Fetal Alcohol syndrome; Process outgrowth (Yanni, P.A. (120) 233)

Retinal ganglion cell; Cytochrome oxidase histochemistry; Postnatal development; Optical densitometry; Neuronal maturity (Govindaiah (124) 117)

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Technique
Axonal labeling; Growth cones; Sensory ganglia (Kato, H. (121) 109

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Hindbrain; Retrograde labeling; Sexual differentiation; Vocal learning (Johnson, F. (121) 253)

Tenascin-C
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Terminal deoxynucleotidyl transferase (TdT)-mediated dUTP-biotin nick end labeling (TUNEL)
Rat *Small eye* (*rSey*); *Pax-6*; 5′-Bromodeoxyuridine (BrdU); Highly polysialylated NCAM (PSA-NCAM); Cerebral cortex (Fukuda, T. (120) 65)

Testosterone
Sexual dimorphism; Hypothalamus; SDN-POA; AVPV; Flutamide; Rat (Lund, T.D. (120) 261)

Δ^9-Tetrahydrocannabinol
Cannabinoid; Prenatal exposure; Proenkephalin gene expression; Opioid peptide (Pérez-Rosado, A. (120) 77)

Thalamocortical projection
Ontogeny; Development; Serotonin, 5-HT; Volume transmission; Drug abuse; High-affinity uptake; Somatosensory; Barrel formation (Zhou, F.C. (119) 33)

Thalamus
Apoptosis; Brainstem; Cerebellum; Cortex; Neuronal death (Mooney, S.M. (123) 103)

Thiamine-dependent enzyme
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Thin layer chromatography
Embryonic; Allopregnanolone; Isopregnanolone; Progesterone; 5α-Reductase activity (Pomata, P.E. (120) 83)

Thrombin
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Sema3A; Dopamine; Sympathetic neuron (Shirvan, A. (83) 81)

Methamphetamine; TUNEL; Caspase (Deng, X. (83) 121)

Mitochondria; Stress protein; Chaperonin; Chaperon (Okubo, A. (84) 127)

Rat retina; NMDA; AIP; Neuroprotection; Caspase-3 (Laabich, A. (85) 32)

Alzheimer's disease; AP-1; Cerebral cortex; Nuclear factor κB; Stroke (Camandola, S. (85) 53

SH-SY5Y neuroblastoma; Staurosporine; H-7; Caspase; PARP (López, E. (85) 61)

Spinal cord; iNOS; Macrophage (Satake, K. (85) 114)

Caspase-9; Rat retinal ganglion cells; Axotomy; Neuroprotection (Kermer, P. (85) 144)

Aquaporin-4
Middle cerebral artery occlusion; Brain edema (Taniguchi, M. (78) 131)

Arachidonic acid
Cytotoxic brain oedema; Cerebral ischaemia; In vitro model (Winkler, A.S. (76) 419)

Arcuate nucleus
Stress; Neuropeptide Y; Hippocampus; Dentate gyrus (Conrad, C.D. (79) 102)

Feeding; Lateral hypothalamic area; Pro-opiomelanocortin (Johansen, J.E. (84) 97)

Argininosuccinate lyase
Neuronal PC12 cell; Inducible nitric oxide synthase; Argininosuccinate synthetase; Citrulline–NO cycle (Zhang, W.Y. (83) 1)

Argininosuccinate synthetase
Neuronal PC12 cell; Inducible nitric oxide synthase; Argininosuccinate lyase; Citrulline–NO cycle (Zhang, W.Y. (83) 1)

Artemin
Glial cell line-derived neurotrophic factor; Neurturin; Persephin; *c-ret*; GFRα-1; GFRα-2; GFRα-3; Cochlea; RT–PCR (Stöver, T. (76) 25)

Arylalkylamine *N*-acetyltransferase
Melatonin; Enzyme stability; Pineal; Retina; Mutagenesis (Craft, C.M. (75) 198)

E box; Circadian; Clock; Retina (Chen, W. (81) 43)

Asphyxia
Cardiac arrest; Chaperonin; Heat shock protein; Ischemia (Hickey, R.W. (79) 169)

Astrocyte
Glutamate transporter; GLT-1; Microglia; Facial nerve axotomy; Facial nucleus; Rat (López-Redondo, F. (76) 429)

Proenkephalin; AP-1; CREB; Protein kinase A; Protein kinase C (Won, J.-S. (84) 41)

ATP
P2X receptor; Single-cell RT-PCR; Ligand-gated ion channel; Retina; Müller cell; Glia (Jabs, R. (76) 205)

V-ATPase
C7-1; Aging; Frontal cortex; Regional distribution; Gene expression (Hung, H.-C. (75) 330

ATP release
Synapsin; NG108-15; Ca^{2+} imaging; FM1-43; Synaptic vesicle recycling (Sugiyama, T. (85) 133)

ATP, single-cell RT-PCR
P2X receptor; Ligand-gated ion channel; Retina; Bipolar cell (H. Wheeler-Schilling, T. (76) 415)

Atrial natriuretic peptide
C-type natriuretic peptide; Cyclic GMP; Guanylyl cyclase-B; Pineal (Müller, D. (75) 321)

AT_2 receptor
Angiotensin II; PC12W cells; Nerve growth factor (NGF); Extracellular signal-regulated kinases (ERK), tyrosine phosphorylation (Stroth, U. (78) 175)

Auditory brain stem
Excitatory amino acid; Glutamate; In situ hybridization; Deafness (Nakagawa, H. (77) 246)

Autophagy
UNC-51 protein kinase; GABARAP; GATE-16; Axonal elongation; Vesicular transport (Okazaki, N. (85) 1)

Autoradiography
Opioid receptor; Knock-out mice (Chen, H.-C. (76) 170)

Autosomal recessive juvenile parkinsonism
Parkin; Rat; Distribution (D'Agata, V. (75) 345)

Axonal elongation
UNC-51 protein kinase; GABARAP; GATE-16; Vesicular transport; Autophagy (Okazaki, N. (85) 1)

Axotomy
Rat; Facial nerve; Post-synaptic density-95; Carboxy-terminal PDZ ligand of neuronal nitric oxide synthase; Neuronal nitric oxide synthase; Synapse (Che, Y.H. (76) 325)

Caspase-9; Rat retinal ganglion cells; Apoptosis; Neuroprotection (Kermer, P. (85) 144)

B

Baculovirus expression
Glutaminase; cDNA; Mitochondria; Stroke (Holcomb, T. (76) 56)

Barrel cortex
Brain-derived neurotrophic factor; Kainic acid; Pentylenetetrazol; Gene regulation; Hippocampus; Somatosensory cortex (Nanda, S.A. (78) 1

Basal forebrain
Neurotrophic factor; Brain-derived neurotrophic factor; Human postmortem; Cholinergic; Neurodegeneration (Holsinger, R.M.D. (76) 347)

Cingulate cortex; Olfactory bulb; Horizontal limb; Neurotrophin; Estrogen receptor (Jezierski, M.K. (85) 77)

Basal ganglia
6-Hydroxydopamine; *p*-Chloroamphetamine; Preprotachykinin; Preproenkephalin; Parkinson's disease (Basura, G.J. (81) 80)

Baseline conductance
Potassium channel; Immunohistochemistry; Expression; Colocalization; Glial fibrillary acid protein; Central nervous system (Kindler, C.H. (80) 99)

Basic helix–loop–helix transcription factor
Neuronal differentiation; Gene structure; P19 cell; NDRF (neuroD-related factor) (Oda, H. (77) 37)

Bax
Apoptosis; Caspase; p21; Cell cycle (Schmidt-Kastner, R. (79) 88)

BDNF
Substantia nigra; Pars reticulata; 6-OH-DA; In situ hybridization; DA (Aliaga, E. (79) 150)

Bergmann glia
Extracellular matrix; mRNA transport; In situ hybridization; Neural development (Mothe, A.J. (76) 73)

bHLH-PAS
Circadian; *Clock* gene; Retina; Photoreceptor; *Xenopus* (Zhu, H. (75) 303)

Binding protein
Insulin-like growth factor; Sensorimotor; GABAergic (Naeve, G.S. (75) 185)

Interleukin 18; AcPL; Hypothalamus; RT-PCR (Wheeler, R.D. (77) 290)

Bipolar cell
P2X receptor; ATP, single-cell RT-PCR; Ligand-gated ion channel; Retina (H. Wheeler-Schilling, T. (76) 415)

Bony fish
Shaw-type channel; Molecular structure; Electrophysiology; Proteinkinase C; Developmental expression (Panofen, F. (83) 9)

Bovine brain
20S proteasome; 26S proteasome (Piccinini, M. (76) 103)

E box
Circadian; Clock; Arylalkylamine *N*-Acetyltransferase; Retina (Chen, W. (81) 43

Brain
SHIP; Rat; In situ hybridization histochemistry (Kudo, M. (75) 172)

MIF-1; Leech; Invertebrate; Osmoregulation (Salzet, M. (76) 161)

mRNA; Scrapie; BSE; Prion (Dandoy-Dron, F. (76) 173)

Estrogen receptor beta; Macaque; Ovarian steroid; Hormone replacement therapy (Gundlah, C. (76) 191)

Excitability; Electrophysiology; Hypoxia; Sodium channel; Tetrodotoxin (Xia, Y. (76) 211)

Electroconvulsive shock; Glutathione peroxidase; Rat; Seizure; Superoxide dismutase (Eraković, V. (76) 266)

NMDA receptor; mRNA; Splice variant; Development; Lead (Guilarte, T.R. (76) 299)

Transcription factor; Depression; Cortex (Hausmann, A. (76) 355)

$P2Y_1$ antiserum; Optic nerve; Cerebellum; Submandibular gland; Corpus callosum (Morán-Jiménez, M.-J. (78) 50)

Sox4; *Sox11*; Neural tube; *Sox4* null mutant (Cheung, M. (79) 180)

Protein kinase A; Acetylcholine; Fluorescent cyclic nucleotides (Mucignat-Caretta, C. (80) 233)

Histamine; Receptor; Splicing variants (Liu, C. (83) 145)

Thiol disulfide oxidoreductase; Thioltransferase; Oxidative stress; Glutathione; Human (Balijepalli, S. (85) 123)

Brain-derived neurotrophic factor
Granule cell; Apoptosis; Subventricular zone; Rostral migratory stream; Olfactory bulb; Dentate gyrus (Linnarsson, S. (75) 61)

5,7-Dihydroxytryptamine; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Gene therapy; Serotonin; Dopamine; Striatum (Frechilla, D. (76) 306)

Neurotrophic factor; Human postmortem; Basal forebrain; Cholinergic; Neurodegeneration (Holsinger, R.M.D. (76) 347)

Kainic acid; Pentylenetetrazol; Gene regulation; Hippocampus; Barrel cortex; Somatosensory cortex (Nanda, S.A. (78) 1)

Alzheimer's disease; β-Amyloid; Neurotoxicity; Hippocampus (Tang, Ya.-P. (80) 188)

Capsaicin; Dorsal root ganglia; Immunohistochemistry; Pain; Reverse transcriptase-polymerase chain reactions; Spinal cord (Ha, S.-O. (81) 181

Brain development
Nuclear hormone receptor; Orphan receptor TR4; Granule cells (Van Schaick, H.S.A. (77) 104)

Thyroid hormone; RC3/neurogranin; Cerebral cortex (Dowling, A.L.S. (82) 126)

Ca^{2+}/calmodulin-dependent protein kinase II (CaM kinase II); P19 cell; Isoform; Alternative splicing; Neural differentiation (Donai, H. (85) 189)

Brain edema
Middle cerebral artery occlusion; Aquaporin-4 (Taniguchi, M. (78) 131)

Brain glycolysis
6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase; Gene expression (Goren, N. (75) 138)

Brain-specific phosphate cotransporter
DNPI; Gene expression; In situ hybridization histochemistry; Rat (Hisano, S. (83) 34)

Brainstem
C-fos; Dopamine-β-hydroxylase; Tyrosine hydroxylase; GnRH; Coitus (Caba, M. (77) 222)

Serotonin; Food intake; Leptin receptor; Hypothalamus (Collin, M. (81) 51)

Metabotropic glutamate receptors; Thalamus; Monoarthritis; Pain; In situ hybridisation (Lourenço Neto, F. (81) 140)

Brain transcript
Erythropoietin receptor; Alternative splicing; Upstream transcription; Anemic stress; Induced expression (Chin, K. (81) 29)

Branch point competition
MAP tau; Cryptic splice sites; *Cis* determinants and *trans* factors in regulation of alternative splicing (Wei, M.-L. (80) 207)

Bromocriptine
Apomorphine; Tyrosine hydroxylase; Nigrostriatal dopaminergic neurons; Feedback inhibition (Iwata, S.-i. (82) 133)

BSE
mRNA; Brain; Scrapie; Prion (Dandoy-Dron, F. (76) 173)

C

C7-1
Aging; V-ATPase; Frontal cortex; Regional distribution; Gene expression (Hung, H.-C. (75) 330

Calcineurin
Fragile X syndrome; Fragile X mental retardation protein; Experience dependent plasticity; Kainic acid; Seizures (Todd, P.K. (80) 17)

Calcitonin receptor
Serotonin transporter; In situ hybridization; Antinociception; Mouse (Nakamoto, H. (76) 93)

Calcium
Epilepsy; Excitotoxicity; Kainic acid; Microtubule associated protein; Spectrin (Gary, D.S. (75) 89)

Alzheimer's disease; Caspase; Mitochondrial membrane potential; Oxidative stress (Xie, J. (82) 107)

Cerebral ischemia; FKBP12; Immunophilin; Immunohistochemistry; Rat (Kato, H. (84) 58)

Calcium-calmodulin-dependent protein kinase IIβ
Schizophrenia; Dopamine release; Psychosis; Kinase; Chromosome 7; Antipsychotic drug; Frontal cortex; Caudate nucleus; Putamen (Novak, G. (82) 95)

Calcium channel
Absence epilepsy; Thalamus; In situ hybridization (Talley, E.M. (75) 159)

Calcium-sensing receptor
Periplasmic binding proteins; G-protein coupled receptor; Leucine-isoleucine-valine binding protein; $GABA_B$ receptor (Peltekova, V. (76) 180)

Glioblastoma; Tumor Cells; Ca^{2+}-activated potassium channel (Ye, C. (80) 177)

Calmodulin
Phosphorylation; Isoforms (GuptaRoy, B. (80) 26)

Calmodulin mRNAs
Chronic ethanol treatment; Withdrawal; Rat brain; Gene expression; Quantitative in situ hybridization (Vizi, S. (83) 63)

Caloric restriction
Cognitive deficits; LTP; Memory; NMDA; Glutamate (Eckles-Smith, K. (78) 154)

CaMKII-α
Rat retina; CaMKII-α_B; Nucleus; NMDA; Apoptosis (Laabich, A. (76) 253)

CaMKII
Photoreceptor; Retina; Synaptic plasticity; CPEB (Liu, L.O. (82) 150)

CaMKII-α_B
Rat retina; CaMKII-α; Nucleus; NMDA; Apoptosis (Laabich, A. (76) 253

CaM-kinase phosphatase
CaM-kinases; Protein phosphatase; Post synaptic density; Striatal cholinergic neuron; Immunohistochemistry (Nakamura, Y. (77) 76)

CaM-kinases
CaM-kinase phosphatase; Protein phosphatase; Post synaptic density; Striatal cholinergic neuron; Immunohistochemistry (Nakamura, Y. (77) 76)

cAMP
Adrenomedullin; Cerebral microvessel; CGRP, Calcitonin-receptor-like receptor; Receptor-activity-modifying protein (Kobayashi, H. (81) 1)

Norepinephrine transporter; Promoter; Cloning; Expression (Padbury, J.F. (83) 128)

Canavan disease
N-acetylaspartate; Amide hydrolysis; Human aspartoacylase; Acetate deficiency hypothesis; Acetate supplementation therapy (Namboodiri, M.A.A. (77) 285)

Capsaicin
Brain-derived neurotrophic factor; Dorsal root ganglia; Immunohistochemistry; Pain; Reverse transcriptase-polymerase chain reactions; Spinal cord (Ha, S.-O. (81) 181)

Carboxy-terminal PDZ ligand of neuronal nitric oxide synthase
Rat; Facial nerve; Axotomy; Post-synaptic density-95; Neuronal nitric oxide synthase; Synapse (Che, Y.H. (76) 325)

Cardiac arrest
Asphyxia; Chaperonin; Heat shock protein; Ischemia (Hickey, R.W. (79) 169)

Carotid body
Chronic hypoxia; Dopamine D_2-receptor; Nucleus tractus solitarius; Rat (Huey, K.A. (75) 264)

Caspase
Ischemia; mRNA; Housekeeping genes (Harrison, D.C. (75) 143)

Apoptosis; Bax; p21; Cell cycle (Schmidt-Kastner, R. (79) 88)

Alzheimer's disease; Calcium; Mitochondrial membrane potential; Oxidative stress (Xie, J. (82) 107)

Methamphetamine; Apoptosis; TUNEL (Deng, X. (83) 121)

SH-SY5Y neuroblastoma; Staurosporine; H-7; PARP; Apoptosis (López, E. (85) 61)

Caspase-3
Epilepsy; Limbic system; Rhinal cortex; Neuronal apoptosis; DNA fragmentation (Kondratyev, A. (75) 216

NF-κB; IκB-α; Proteasome; MG-132, Ac-DE-VD-CHO; Apoptosis (Qin, Z.-H. (80) 111)

Amyloid precursor protein; Apoptosis; Inflammation; Adenovirus vector; Alzheimer's disease (Masumura, M. (80) 219)

Rat retina; NMDA; Apoptosis; AIP; Neuroprotection (Laabich, A. (85) 32)

Caspase-9
Rat retinal ganglion cells; Axotomy; Apoptosis; Neuroprotection (Kermer, P. (85) 144)

Caspase-independent
Nuclear fragmentation; Primary culture (Hamabe, W. (78) 186)

CAT assay
Alzheimer's disease; SHSY5Y; Transfection; Yeast artificial chromosome (Lee, K.-F. (84) 150)

Catecholamine
Pterin-4α-carbinolamine dehydratase; Rat brain; Tetrahydrobiopterin; Immunohistochemistry; Tyrosine hydroxylase (Depaepe, V. (75) 76)

Caudate nucleus
Schizophrenia; Dopamine release; Psychosis; Kinase; Calcium-calmodulin-dependent protein kinase IIβ; Chromosome 7; Antipsychotic drug; Frontal cortex; Putamen (Novak, G. (82) 95)

Ca^{2+}/calmodulin-dependent protein kinase
Diazepam binding inhibitor; Nicotine; Voltage-dependent calcium channels; Cerebral cortical neurons (Katsura, M. (80) 132)

Ca^{2+}/calmodulin-dependent protein kinase II
Ryanodine receptor; Fear conditioning; Hippocampus; Knockout mouse; Memory (Kouzu, Y. (76) 142)

Postsynaptic density; Phosphorylation; Translocation; Two-dimensional gel electrophoresis (Yoshimura, Y. (81) 118)

Opioids; Opioid receptor; Phosphorylation; Desensitization; Tolerance; Analgesia (Brüggemann, I. (85) 239)

Ca^{2+}/calmodulin-dependent protein kinase II (CaM kinase II)
P19 cell; Isoform; Alternative splicing; Neural differentiation; Brain development (Denai, H. (85) 189)

Ca^{2+}-activated potassium channel
Calcium-sensing receptor; Glioblastoma; Tumor Cells (Ye, C. (80) 177)

Ca^{2+} imaging
Synapsin; NG108-15; FM1-43; Synaptic vesicle recycling; ATP release (Sugiyama, T. (85) 133

CD44
Müller cells; *rds* mouse; Retina; Retinal degeneration (Krishnamoorthy, R. (77) 125)

cDNA
Glutaminase; Baculovirus expression; Mitochondria; Stroke (Holcomb, T. (76) 56)

Grid analysis; Subtractive hybridization; Magnocellular; Parvocellular; Visual cortex (Prasad, S.S. (82) 11)

Opioid growth factor receptor; Mouse; Gene; mRNA (Zagon, I.S. (84) 106)

cDNA cloning
Lungfish; Myelin; Proteolipid protein; DM20; Phylogenetic relation (Tohyama, Y. (80) 256)

Cell adhesion molecule
DSCAM; Ig; Homophilic binding (Agarwala, K.L. (79) 118)

Cell contact
Neuronal culture; Synaptogenesis; Glial cell; Tetrodotoxin; RNA expression (Lesuisse, C. (81) 92)

Cell culture
Dopamine; Signaling; γ-Aminobutyric acid; Glutamic acid decarboxylase; Differentiation (Küppers, E. (81) 19)

Neural cell adhesion molecule; Human optic nerve; Type 1B astrocyte; Reactive astrocyte; Lamina cribrosa; Glaucoma (Ricard, C.S. (81) 62)

Cell cycle
PCNA; Cell proliferation; Development; Neurogenesis (Ino, H. (78) 163)

Apoptosis; Bax; Caspase; p21 (Schmidt-Kastner, R. (79) 88)

Cell death
c-Jun-N-terminal kinase; Neuronal cell; TNFα; H_2O_2 (Mielke, K. (75) 128)

Apoptosis; LDH release; Cytotoxicity; PARP (Bursztajn, S. (76) 363)

Cell fate
Otx2; Paired homeodomain proteins; Subcellular localization; Development; Retina (Baas, D. (78) 26)

PC 12
c-Jun; Survival; Differentiation; Sodium channel; JunB; AP-1 (Dragunow, M. (83) 20)

PC-12 cell line
Cellular prion protein; Extracellular matrix; Hippocampal neuron; Laminin; Neurite outgrowth (Graner, E. (76) 85)

Cell proliferation
PCNA; Cell cycle; Development; Neurogenesis (Ino, H. (78) 163

Cell-specific assembly factor
Neuronal nicotinic receptor; Receptor assembly; Human adenovirus; α7 subunit; α4β2 receptor (Sweileh, W. (75) 293)

Cell-surface expression
Neuropeptide Y; Green fluorescence protein; Gene structure; Chromosomal localisation (Parker, R.M.C. (77) 199)

Cellular prion protein
Extracellular matrix; Hippocampal neuron; Laminin; Neurite outgrowth; PC-12 cell line (Graner, E. (76) 85)

Cellular processing
β Amyloid precursor protein; Aβ; Epitope tagging (Seiffert, D. (84) 115)

Cell–cell recognition
IgLON; Retina; GPI-anchor; Neurite outgrowth (Lodge, A.P. (82) 84)

Central nervous system
Interleukin; Tumor necrosis factor; Growth factor; Piriform; Prefrontal; Cortex; Hippocampus; Amygdala; Hypothalamus; Neuroprotection (Plata-Salamán, C.R. (75) 248)

Potassium channel; Baseline conductance; Immunohistochemistry; Expression; Colocalization; Glial fibrillary acid protein (Kindler, C.H. (80) 99)

Cerebellar neuron
Okadaic acid; L-Glutamate; Neurotoxicity; DNA fragmentation (Bezvenyuk, Z. (81) 191)

Cerebellum
Neuronal nitric oxide synthase; In situ hybridization; Fish; Salmon (*Salmo salar*) (Øyan, A.M. (78) 38)

$P2Y_1$ antiserum; Optic nerve; Brain; Submandibular gland; Corpus callosum (Morán-Jiménez, M.-J. (78) 50)

Presenilin; Alzheimer's disease; Hippocampus; Gene expression (McMillan, P.J. (78) 138)

Rat; Hippocampus; Cerebral cortex; Macroglia; Optic nerve (Fogarty, D.J. (81) 164)

Potassium channel; Tandem pore domain; Degenerate PCR; Human; Taqman mRNA analysis (Chapman, C.G. (82) 74)

Cerebral cortex
Rat; Hippocampus; Cerebellum; Macroglia; Optic nerve (Fogarty, D.J. (81) 164)

Thyroid hormone; RC3/neurogranin; Brain development (Dowling, A.L.S. (82) 126)

Alzheimer's disease; AP-1; Apoptosis; Nuclear factor κB; Stroke (Camandola, S. (85) 53

Cerebral cortical neurons
Diazepam binding inhibitor; Nicotine; Voltage-dependent calcium channels; Ca^{2+}/calmodulin-dependent protein kinase (Katsura, M. (80) 132)

Cerebral ischemia
Arachidonic acid; Cytotoxic brain oedema; In vitro model (Winkler, A.S. (76) 419)

FKBP12; Immunophilin; Calcium; Immunohistochemistry; Rat (Kato, H. (84) 58)

Cerebral microvessel
Adrenomedullin; cAMP; CGRP, Calcitonin-receptor-like receptor; Receptor-activity-modifying protein (Kobayashi, H. (81) 1)

CGP39653
Macaque; Ifenprodil; MK-801; Receptor autoradiography; In situ hybridization (Ibrahim, H.M. (79) 1)

CGRP, Calcitonin-receptor-like receptor
Adrenomedullin; Cerebral microvessel; cAMP; Receptor-activity-modifying protein (Kobayashi, H. (81) 1)

SK channel
Small conductance calcium-activated potassium channel; Quantitative PCR; Expression; Human brain (Rimini, R. (85) 218)

Chaperon
Apoptosis; Mitochondria; Stress protein; Chaperonin (Okubo, A. (84) 127)

Chaperonin
Asphyxia; Cardiac arrest; Heat shock protein; Ischemia (Hickey, R.W. (79) 169)

Apoptosis; Mitochondria; Stress protein; Chaperon (Okubo, A. (84) 127)

***p*-Chloroamphetamine**
6-Hydroxydopamine; Basal ganglia; Preprotachykinin; Preproenkephalin; Parkinson's disease (Basura, G.J. (81) 80)

Cholecystokinin
Nurr1; Dopamine; DiI; Substantia nigra; Ventral tegmental area (Witta, J. (84) 67)

Cholinergic
Neurotrophic factor; Brain-derived neurotrophic factor; Human postmortem; Basal forebrain; Neurodegeneration (Holsinger, R.M.D. (76) 347)

Chromosomal localisation
Neuropeptide Y; Cell-surface expression; Green fluorescence protein; Gene structure (Parker, R.M.C. (77) 199)

Chromosome 7
Schizophrenia; Dopamine release; Psychosis; Kinase; Calcium-calmodulin-dependent protein kinase IIβ; Antipsychotic drug; Frontal cortex; Caudate nucleus; Putamen (Novak, G. (82) 95

Chronic ethanol
Traumatic brain injury; Fluid percussion; Neurotrophin; Neurotrophin receptor; In situ hybridization; Neuronal plasticity (Zhang, L. (79) 174)

Chronic ethanol treatment
Withdrawal; Rat brain; Gene expression; Calmodulin mRNAs; Quantitative in situ hybridization (Vizi, S. (83) 63)

Chronic hypoxia
Dopamine D_2-receptor; Nucleus tractus solitarius; Carotid body; Rat (Huey, K.A. (75) 264)

Cingulate cortex
Olfactory bulb; Basal forebrain; Horizontal limb; Neurotrophin; Estrogen receptor (Jezierski, M.K. (85) 77)

Circadian
Clock gene; bHLH-PAS; Retina; Photoreceptor; *Xenopus* (Zhu, H. (75) 303)

E box; Clock; Arylalkylamine *N*-Acetyltransferase; Retina (Chen, W. (81) 43)

Circadian rhythm
Suprachiasmatic nucleus; *junB*; Spontaneous expression; Light; Tyrphostin; Genistein (Dong, Y. (77) 29)

Clock gene; Japanese quail; Eye; Pineal; Entrainment (Yoshimura, T. (78) 207)

In situ hybridization histochemistry; Aging; Hippocampus; Spatial learning; Psychiatric disorders (Kohen, R. (79) 163)

Immediate early genes; Transcription factors; Gene knockout mice; Sleep; REM sleep (Shiromani, P.J. (80) 75)

***Cis* determinants and *trans* factors in regulation of alternative splicing**
MAP tau; Cryptic splice sites; Branch point competition (Wei, M.-L. (80) 207)

Period gene; Retina; Pigment epithelium; *Xenopus* (Zhuang, M. (82) 52)

Citrulline–NO cycle
Neuronal PC12 cell; Inducible nitric oxide synthase; Argininosuccinate synthetase; Argininosuccinate lyase (Zhang, W.Y. (83) 1)

Cleavage
Glutamate; Excitatory amino acid transporter; RNA; Polyadenylation; Neurodegeneration (Münch, C. (80) 244)

Clenbuterol
AP-1; L929 cells; Nerve growth factor; 3T3 cells; Vitamin D receptor (Samina Riaz, S. (85) 179

Climbing behavior
μ-Opioid receptor; Dopamine receptor; Knockout mice; Morphine; Naloxone (Jang, C.-G. (78) 204)

Clock
E box; Circadian; Arylalkylamine *N*-Acetyltransferase; Retina (Chen, W. (81) 43)

***Clock* gene**
Circadian; bHLH-PAS; Retina; Photoreceptor; *Xenopus* (Zhu, H. (75) 303)

Circadian rhythm; Japanese quail; Eye; Pineal; Entrainment (Yoshimura, T. (78) 207)

Cloning
Norepinephrine transporter; Promoter; Expression; cAMP (Padbury, J.F. (83) 128)

Cl^- channel
Recombinant $GABA_A$ receptor; Convulsant; Picrotoxin (Bell-Horner, C.L. (76) 47)

Cocaine
Drug abuse; Morphine; NR4A1; NR4A2; NR4A3 (Werme, M. (76) 18)

Co-sensitization; Morphine; MDMA; LSD; THC; c-*fos*; In situ hybridization (Erdtmann-Vourliotis, M. (77) 55)

$GABA_A$ receptor; Subunit mRNA; [^{35}S]TBPS binding; Time course (Yamaguchi, M. (81) 155)

Dopamine; Nigrostriatal; Cortex; Development; Receptor (Halladay, A.K. (85) 171)

Cocaine self-administration
Gene expression; In situ hybridisation histochemistry; Monoamine transporter; Enkephalin; Substance P (Arroyo, M. (83) 107)

Cochlea
Glial cell line-derived neurotrophic factor; Neurturin; Artemin; Persephin; *c-ret*; GFRα-1; GFRα-2; GFRα-3; RT–PCR (Stöver, T. (76) 25)

Adenylyl cyclase isoform; Stria vascularis; Immunohistochemistry (Drescher, M.J. (76) 289)

Hair cell; KCNQ4; Expression pattern; In situ hybridization (Beisel, K.W. (82) 137)

Sox10; Inner ear; Organ of Corti; Supporting cell; Otic vesicle (Watanabe, K.-i. (84) 141)

Cognitive deficits
LTP; Memory; NMDA; Caloric restriction; Glutamate (Eckles-Smith, K. (78) 154)

Coitus
C-fos; Dopamine-β-hydroxylase; Tyrosine hydroxylase; GnRH; Brainstem (Caba, M. (77) 222)

c-Fos; Gonadotropin-releasing hormone; Hypothalamus; Immunocytochemistry, In situ hybridization (Caba, M. (78) 69)

Colocalization
Potassium channel; Baseline conductance; Immunohistochemistry; Expression; Glial fibrillary acid protein; Central nervous system (Kindler, C.H. (80) 99)

Cone photoreceptor
Retina; Fovea; Photoreceptor; Protein tyrosine phosphatase; PRL-1 (Yarovinsky, T.O. (77) 95)

Confocal laser scanning microscopy
Methamphetamine; Nucleus; Transcription factor; AP-1; CREB (Asanuma, M. (80) 237)

Confocal microscopy
Antibody; Co-localisation; $GABA_B$ receptors; Heterodimer; Immunohistochemistry (Billinton, A. (77) 111)

Connexin
Gap junction; Spatial buffering (Söhl, G. (83) 44)

Connexin-32
Schwann cell; Junctional conductance; Luciferase assay (Wang, H.-L. (78) 146)

Constitutive activity
Serotonin receptors; Signal transduction; Mutagenesis (Rosendorff, A. (84) 90)

Convulsant
Recombinant $GABA_A$ receptor; Cl^- channel; Picrotoxin (Bell-Horner, C.L. (76) 47)

Core promoter
GDNF; 5′-Untranslated region; Promoter regulation; Glial cell line (Tanaka, M. (85) 91)

Corpus callosum
$P2Y_1$ antiserum; Optic nerve; Brain; Cerebellum; Submandibular gland (Morán-Jiménez, M.-J. (78) 50)

Cortex
Interleukin; Tumor necrosis factor; Growth factor; Piriform; Prefrontal; Hippocampus; Amygdala; Hypothalamus; Neuroprotection; Central nervous system (Plata-Salamán, C.R. (75) 248)

Transcription factor; Brain; Depression (Hausmann, A. (76) 355)

Dopamine; Cocaine; Nigrostriatal; Development; Receptor (Halladay, A.K. (85) 171)

Corticosteroid receptor
Adrenalectomy; Mineralocorticoid receptor; Glucocorticoid; Hippocampus; Dorsal raphe nucleus; Serotonin receptor (Neumaier, J.F. (82) 65)

Corticosterone
Neurotrophin; Neurotrophic factor; Diurnal; Glucocorticoid (Schaaf, M.J.M. (75) 342

Corticotropin-releasing hormone
Hippocampus; Immobilization stress; In situ hybridization; MK-801; *N*-Methyl-D-aspartic acid (Givalois, L. (75) 166)

Corticotropin releasing factor
Inferior olive; Deep cerebellar nuclei; Purkinje cell; $GABA_A$; In situ hybridization (Frostholm, A. (85) 200)

Coxsackievirus and adenovirus receptor
Nerve growth cone; Adhesion molecule; Subcellular localization; In situ hybridization (Honda, T. (77) 19)

CPEB
CaMKII; Photoreceptor; Retina; Synaptic plasticity (Liu, L.O. (82) 150)

(*R*)-CPP
Cytokine; Dizocilpine maleate; Glutamate receptor; In situ hybridization histochemistry; Seizure (Eriksson, C. (85) 103)

CRE
Purα; Single-stranded DNA binding protein; Forskolin (Sadakata, T. (77) 47)

CREB
Hippocampus; PKA; MAPK; Elk-1; Fos; One-trial avoidance; Rat (Cammarota, M. (76) 36)

Methamphetamine; Nucleus; Transcription factor; AP-1; Confocal laser scanning microscopy (Asanuma, M. (80) 237)

Proenkephalin; Astrocyte; AP-1; Protein kinase A; Protein kinase C (Won, J.-S. (84) 41)

CRE site
Human neuroblastoma cells; Pituitary adenylate cyclase activating peptide; Transcription; Vasoactive intenstinal polypeptide gene expression (Georg, B. (79) 67)

Critical period
NMDA receptor; Neuronal plasticity; Visual development; Western blot (Chen, L. (78) 196)

UV-crosslinking assay
Dendritic RNA targeting; Extrasomatic localization and translation; RNA-binding protein (Rehbein, M. (79) 192)

Cryptic splice sites
MAP tau; Branch point competition; *Cis* determinants and *trans* factors in regulation of alternative splicing (Wei, M.-L. (80) 207)

Cyclic GMP
Atrial natriuretic peptide; C-type natriuretic peptide; Guanylyl cyclase-B; Pineal (Müller, D. (75) 321)

Cysteine dioxygenase
Cysteine sulfinate decarboxylase; Aldose reductase; mRNA; Salt-loading; Hyperosmolarity (Bitoun, M. (77) 10

Cysteine sulfinate decarboxylase
Cysteine dioxygenase; Aldose reductase; mRNA; Salt-loading; Hyperosmolarity (Bitoun, M. (77) 10)

Cytokine
Glioma; Oncostatin M; Signal transduction; Jak-Stat; Growth inhibition (Halfter, H. (80) 198)

Dizocilpine maleate; Glutamate receptor; In situ hybridization histochemistry; (*R*)-CPP; Seizure (Eriksson, C. (85) 103)

Cytoskeletal protein
Phosphorylation; Proline-directed kinase; Multimeric complex (Veeranna, G.J. (76) 229)

Cytotoxic brain oedema
Arachidonic acid; Cerebral ischaemia; In vitro model (Winkler, A.S. (76) 419)

Cytotoxicity
Apoptosis; Cell death; LDH release; PARP (Bursztajn, S. (76) 363)

D

$D2_{Longer}$
Dopamine receptor; D2 splice variant; D2 mRNA; Psychosis (Seeman, P. (76) 132)

Dopamine receptor; D2 splice variant; D2 mRNA; Psychosis (Liu, I.S.C. (77) 281)

D3nf
Dopamine D3 receptor; Splice variant; Dimers; Oligomers (Elmhurst, J.L. (80) 63)

6-OH-DA
BDNF; Substantia nigra; Pars reticulata; In situ hybridization; DA (Aliaga, E. (79) 150)

DA
BDNF; Substantia nigra; Pars reticulata; 6-OH-DA; In situ hybridization (Aliaga, E. (79) 150)

Deafness
Auditory brain stem; Excitatory amino acid; Glutamate; In situ hybridization (Nakagawa, H. (77) 246)

Deep cerebellar nuclei
Inferior olive; Purkinje cell; $GABA_A$; Corticotropin releasing factor; In situ hybridization (Frostholm, A. (85) 200)

Degenerate PCR
Potassium channel; Tandem pore domain; Cerebellum; Human; Taqman mRNA analysis (Chapman, C.G. (82) 74

Degeneration
Olfactory bulbectomy; Model of depression; Immediate early gene Jun; Serotonergic reinnervation; Plasticity; Amygdala (Wrynn, A.S. (76) 7)

Deletion analysis
Gene transcription; Repressor; DNA binding; Oligomerization; Glycosylation; Zinc finger (Lee, J.-H. (80) 88)

DeltaFosB
AP-1; Epilepsy; Status epilepticus; Neuronal plasticity; Serum response factor; Pilocarpine (Morris, T.A. (79) 138)

Delta opioid receptor
Morphine; MAP kinase; Receptor down regulation; Opioid peptide; G protein-coupled receptor (Chaturvedi, K. (80) 166)

Dendritic RNA targeting
Extrasomatic localization and translation; RNA-binding protein; UV-crosslinking assay (Rehbein, M. (79) 192)

Dentate gyrus
Brain-derived neurotrophic factor; Granule cell; Apoptosis; Subventricular zone; Rostral migratory stream; Olfactory bulb (Linnarsson, S. (75) 61)

Stress; Neuropeptide Y; Hippocampus; Arcuate nucleus (Conrad, C.D. (79) 102)

Depression
Transcription factor; Brain; Cortex (Hausmann, A. (76) 355)

Desensitization
Signal transduction; G-protein coupled receptor; Dynorphin; Enkephalin; Opiate; Tolerance (Trapaidze, N. (76) 220)

5-HT_3 receptor; Splice variant; Phosphorylation; Whole-cell patch-clamp; Down-regulation (Hubbard, P.C. (81) 101)

Opioids; Opioid receptor; Ca^{2+}/calmodulin-dependent kinase II; Phosphorylation; Tolerance; Analgesia (Brüggemann, I. (85) 239)

Development
Proopiomelanocortin; Prohormone convertase; Granin; Pituitary; *Xenopus laevis* (Holling, T.M. (75) 70)

Tyrosine hydroxylase; Phox2a; Noradrenergic phenotype; Plasticity; Transcription factor; Locus coeruleus (Bezin, L. (76) 275)

NMDA receptor; mRNA; Splice variant; Brain; Lead (Guilarte, T.R. (76) 299)

Otx2; Paired homeodomain proteins; Subcellular localization; Retina; Cell fate (Baas, D. (78) 26)

PCNA; Cell cycle; Cell proliferation; Neurogenesis (Ino, H. (78) 163

Dopamine; Cocaine; Nigrostriatal; Cortex; Receptor (Halladay, A.K. (85) 171)

Developmental expression
Bony fish; Shaw-type channel; Molecular structure; Electrophysiology; Proteinkinase C (Panofen, F. (83) 9)

Diazepam binding inhibitor
Nicotine; Voltage-dependent calcium channels; Ca^{2+}/calmodulin-dependent protein kinase; Cerebral cortical neurons (Katsura, M. (80) 132)

Differential display
Plasticity; Synuclein (Kholodilov, N.G. (75) 281)

Differential splicing
NFAT5; Quantitative PCR analysis; SCA4 (Dalski, A. (83) 125)

Differentiation
Apoptosis; Tyrosine kinase; Neuroblastoma; SH-SY5Y cells (Raghunath, M. (77) 151)

Dopamine; Signaling; γ-Aminobutyric acid; Glutamic acid decarboxylase; Cell culture (Küppers, E. (81) 19)

PC 12; c-Jun; Survival; Sodium channel; JunB; AP-1 (Dragunow, M. (83) 20)

5,7-Dihydroxytryptamine
Brain-derived neurotrophic factor; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Gene therapy; Serotonin; Dopamine; Striatum (Frechilla, D. (76) 306)

DiI
Nurr1; Dopamine; Cholecystokinin; Substantia nigra; Ventral tegmental area (Witta, J. (84) 67)

Dimers
Dopamine D3 receptor; D3nf; Splice variant; Oligomers (Elmhurst, J.L. (80) 63)

Diphenhydramine (DPH)
Lysophospatidic acid (LPA); Substance P (SP); Histamine; Pertussis toxin (PTX); Polymodal nociceptor; Dorsal root ganglion (DRG) (Renbäck, K. (75) 350)

Disabled 1
Mutant mouse; *Reelin*; L1 (Kojima, T. (75) 121)

Distribution
Autosomal recessive juvenile parkinsonism; Parkin; Rat (D'Agata, V. (75) 345)

$GABA_B$; Receptor; Electron microscopy; Antibody (Ige, A.O. (83) 72)

Diurnal
Neurotrophin; Neurotrophic factor; Corticosterone; Glucocorticoid (Schaaf, M.J.M. (75) 342

Dizocilpine maleate
Cytokine; Glutamate receptor; In situ hybridization histochemistry; (*R*)-CPP; Seizure (Eriksson, C. (85) 103)

DM20
cDNA cloning; Lungfish; Myelin; Proteolipid protein; Phylogenetic relation (Tohyama, Y. (80) 256)

DNA binding
Gene transcription; Repressor; Deletion analysis; Oligomerization; Glycosylation; Zinc finger (Lee, J.-H. (80) 88)

DNA fragmentation
Epilepsy; Limbic system; Rhinal cortex; Caspase-3; Neuronal apoptosis (Kondratyev, A. (75) 216)

Okadaic acid; L-Glutamate; Neurotoxicity; Cerebellar neuron (Bezvenyuk, Z. (81) 191)

DNA polymerase-β
Neuron; Aging; Primer extension; Mismatch base excision (Rao, K.S. (85) 251)

DNA repair
Poly (ADP-ribose) polymerase; PARP; Gene expression; Ischemia; Stroke; Hippocampus; Apoptosis (Liu, J. (80) 7)

DNPI
Brain-specific phosphate cotransporter; Gene expression; In situ hybridization histochemistry; Rat (Hisano, S. (83) 34)

Dopamine
Brain-derived neurotrophic factor; 5,7-Dihydroxytryptamine; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Gene therapy; Serotonin; Striatum (Frechilla, D. (76) 306)

Acetylcholine; Hippocampus; In vivo dialysis; Antisense; D-5 receptor (Hersi, A.I. (76) 336)

Signaling; γ-Aminobutyric acid; Glutamic acid decarboxylase; Cell culture; Differentiation (Küppers, E. (81) 19)

Sema3A; Apoptosis; Sympathetic neuron (Shirvan, A. (83) 81)

Nurr1; Cholecystokinin; DiI; Substantia nigra; Ventral tegmental area (Witta, J. (84) 67)

Cocaine; Nigrostriatal; Cortex; Development; Receptor (Halladay, A.K. (85) 171)

Dopamine D1 receptor
Nucleus paraventricularis of the hypothalamus; Immunohistochemistry; Western blot; Double labeling; pCREB (Czyrak, A. (85) 209)

Dopamine D3 receptor
D3nf; Splice variant; Dimers; Oligomers (Elmhurst, J.L. (80) 63

Dopamine D_2-receptor
Chronic hypoxia; Nucleus tractus solitarius; Carotid body; Rat (Huey, K.A. (75) 264)

Dopamine-β-hydroxylase
C-fos; Tyrosine hydroxylase; GnRH; Coitus; Brainstem (Caba, M. (77) 222)

Dopamine receptor
D2 splice variant; D2 mRNA; $D2_{Longer}$; Psychosis (Seeman, P. (76) 132)

D2 splice variant; D2 mRNA; $D2_{Longer}$; Psychosis (Liu, I.S.C. (77) 281)

μ-Opioid receptor; Knockout mice; Climbing behavior; Morphine; Naloxone (Jang, C.-G. (78) 204)

D1 mRNA; D2 mRNA; Neuronal cell line; Ntera-2 cell (Sakolsky, D.J. (84) 158)

Dopamine receptors
Gene expression; Hypoxia; Tyrosine hydroxylase (Gross, J. (79) 110)

Nurr1; Substantia nigra (Tseng, K.Y. (80) 1)

Dopamine release
Schizophrenia; Psychosis; Kinase; Calcium-calmodulin-dependent protein kinase IIβ; Chromosome 7; Antipsychotic drug; Frontal cortex; Caudate nucleus; Putamen (Novak, G. (82) 95)

Dopamine transporter
Selenium; Substantia nigra; Striatum; Tyrosine hydroxylase; Glutathione peroxidase (Romero-Ramos, M. (84) 7)

Dorsal raphe nucleus
Adrenalectomy; Corticosteroid receptor; Mineralocorticoid receptor; Glucocorticoid; Hippocampus; Serotonin receptor (Neumaier, J.F. (82) 65)

Dorsal root ganglia
Brain-derived neurotrophic factor; Capsaicin; Immunohistochemistry; Pain; Reverse transcriptase-polymerase chain reactions; Spinal cord (Ha, S.-O. (81) 181)

Dorsal root ganglion (DRG)
Lysophospatidic acid (LPA); Substance P (SP); Histamine; Diphenhydramine (DPH); Pertussis toxin (PTX); Polymodal nociceptor (Renbäck, K. (75) 350)

Dorso-ventral axis
Zic1 gene expression; Spinal cord; Vestibulocochlear nucleus; Neural development (Aruga, J. (78) 15)

Double labeling
Nucleus paraventricularis of the hypothalamus; Dopamine D1 receptor; Immunohistochemistry; Western blot; pCREB (Czyrak, A. (85) 209

Down-regulation
5-HT$_1$ receptor; Splice variant; Phosphorylation; Desensitization; Whole-cell patch-clamp (Hubbard, P.C. (81) 101)

Drug abuse
Cocaine; Morphine; NR4A1; NR4A2; NR4A3 (Werme, M. (76) 18)

Drug dependence
Neurotrophin; Withdrawal; In situ hybridisation; Acetylcholine (Kenny, P.J. (85) 234)

DSCAM
Cell adhesion molecule; Ig; Homophilic binding (Agarwala, K.L. (79) 118)

Dunce homolog
Learning; Rolipram (Thompson, B.E. (83) 94)

Dynorphin
Desensitization; Signal transduction; G-protein coupled receptor; Enkephalin; Opiate; Tolerance (Trapaidze, N. (76) 220)

E

Edg-1
Edg-5; Fibroblast growth factor 2; GTP binding protein; Pertussis toxin; Sphingosine 1-phosphate (Sato, K. (85) 151)

Edg-5
Edg-1; Fibroblast growth factor 2; GTP binding protein; Pertussis toxin; Sphingosine 1-phosphate (Sato, K. (85) 151)

EGF
Protein kinase C; Two-hybrid system; EM; Immunocytochemistry (Oyasu, M. (76) 151)

egr-1
Immediate early genes; zif-268; NGFI-A; krox-24; Vocal learning (Whitney, O. (80) 279)

Electroconvulsive shock
Long-term potentiation, LTP; Hippocampus; Learning; Mental retardation; Immediate-early genes; In situ hybridization (Valentine, G. (75) 337)

Brain; Glutathione peroxidase; Rat; Seizure; Superoxide dismutase (Eraković, V. (76) 266)

Electron microscopy
GABA$_B$; Receptor; Distribution; Antibody (Ige, A.O. (83) 72)

Electrophoretic mobility shift assay
Activating protein 1; Photic regulation; Phase dependency; Immunocytochemistry; In situ hybridization; Suprachiasmatic nucleus (François-Bellan, A.M. (85) 161

Electrophysiologically complex glia
Patch-clamp; RT-PCR; Acute cell isolation (Zhou, M. (76) 121)

Electrophysiology
Brain; Excitability; Hypoxia; Sodium channel; Tetrodotoxin (Xia, Y. (76) 211)

Bony fish; Shaw-type channel; Molecular structure; Proteinkinase C; Developmental expression (Panofen, F. (83) 9)

Elk-1
Hippocampus; PKA; CREB; MAPK; Fos; One-trial avoidance; Rat (Cammarota, M. (76) 36)

EM
Protein kinase C; EGF; Two-hybrid system; Immunocytochemistry (Oyasu, M. (76) 151)

Endogenous morphine
Rat; Adrenal gland (Goumon, Y. (77) 267)

Rat; Adrenal gland; Nitric oxide (Goumon, Y. (81) 177)

Endomorphin
Morphine; Methadone; Fentanyl; Opioid receptor (Chaturvedi, K. (76) 64)

Endoplasmic reticulum
Glucose regulated protein; Homocysteine toxicity; Hsp70; Neuronal cell culture; Stress response (Althausen, S. (84) 32)

Endoproteolysis
Alzheimer's disease; Presenilin 1; Alternative splicing; γ-Secretase activity; Amyloid β (Morihara, T. (85) 85)

β-Endorphin
Nitric oxide synthase; μ Opioid receptor; Preoptic area; Rat (Bouret, S. (80) 46)

Endotoxin
Neurotoxicity; Glia; Lipopolysaccharide; Neuroprotection; Protein kinase C (Jeohn, G.-H. (79) 32)

Enkephalin
Desensitization; Signal transduction; G-protein coupled receptor; Dynorphin; Opiate; Tolerance (Trapaidze, N. (76) 220)

Cocaine self-administration; Gene expression; In situ hybridisation histochemistry; Monoamine transporter; Substance P (Arroyo, M. (83) 107)

Entorhinal cortex lesion
hVH-5 Gene; Odor stimulation; In situ hybridization; MAPK phosphatase (Bernabeu, R. (75) 113)

Entrainment
Circadian rhythm; Clock gene; Japanese quail; Eye; Pineal (Yoshimura, T. (78) 207

Enzyme stability
Arylalkylamine *N*-acetyltransferase; Melatonin; Pineal; Retina; Mutagenesis (Craft, C.M. (75) 198)

Epilepsy
Calcium; Excitotoxicity; Kainic acid; Microtubule associated protein; Spectrin (Gary, D.S. (75) 89)

Transporter; Glutamate; GLT-1; GLAST; mRNA; GAERS (Ingram, E.M. (75) 96)

GLAST; Glutamate; Transporter; Ferric chloride; Hippocampus (Doi, T. (75) 105)

Limbic system; Rhinal cortex; Caspase-3; Neuronal apoptosis; DNA fragmentation (Kondratyev, A. (75) 216)

AP-1; DeltaFosB; Status epilepticus; Neuronal plasticity; Serum response factor; Pilocarpine (Morris, T.A. (79) 138)

KCNQ2; Potassium channel; Voltage-clamp; Oocyte; Genistein; Tyrosine phosphorylation (Jow, F. (80) 269)

Epitope tagging
β Amyloid precursor protein; Aβ; Cellular processing (Seiffert, D. (84) 115)

Erythropoietin receptor
Brain transcript; Alternative splicing; Upstream transcription; Anemic stress; Induced expression (Chin, K. (81) 29)

Estrogen receptor
Cingulate cortex; Olfactory bulb; Basal forebrain; Horizontal limb; Neurotrophin (Jezierski, M.K. (85) 77)

Estrogen receptor beta
Macaque; Ovarian steroid; Brain; Hormone replacement therapy (Gundlah, C. (76) 191)

Splice variant; Hypothalamus; Hippocampus (Price, R.H. (80) 260)

Ets factor
Nitric oxide synthase; Gene expression; Nerve growth factor inducibility; Signal transduction mechanism (Rife, T.K. (75) 225)

Excitability
Brain; Electrophysiology; Hypoxia; Sodium channel; Tetrodotoxin (Xia, Y. (76) 211)

Excitatory amino acid
Auditory brain stem; Glutamate; In situ hybridization; Deafness (Nakagawa, H. (77) 246)

Excitatory amino acid transporter
Glutamate; RNA; Cleavage; Polyadenylation; Neurodegeneration (Münch, C. (80) 244)

Glutamate; Metabotropic glutamate receptor; Hippocampus; In situ hybridization; Schizophrenia (Ohnuma, T. (85) 24

Excitotoxicity
Calcium; Epilepsy; Kainic acid; Microtubule associated protein; Spectrin (Gary, D.S. (75) 89)

HEK cells; Stroke; Transfection (Anegawa, N.J. (77) 163)

Exocyst
Sec6; Gene expression; Promoter; Transcription (Chin, L.-S. (79) 127)

Experience dependent plasticity
Fragile X syndrome; Fragile X mental retardation protein; Kainic acid; Seizures; Calcineurin (Todd, P.K. (80) 17)

Expression
Orphan nuclear receptor; In situ hybridization (Lorke, D.E. (77) 277)

Opioid; Morphine; G protein; Untranslated region; Regulation (Zöllner, C. (79) 159)

Potassium channel; Baseline conductance; Immunohistochemistry; Colocalization; Glial fibrillary acid protein; Central nervous system (Kindler, C.H. (80) 99)

Norepinephrine transporter; Promoter; Cloning; cAMP (Padbury, J.F. (83) 128)

Small conductance calcium-activated potassium channel; SK channel; Quantitative PCR; Human brain (Rimini, R. (85) 218)

Expression pattern
Cochlea; Hair cell; KCNQ4; In situ hybridization (Beisel, K.W. (82) 137)

Extracellular matrix
Bergmann glia; mRNA transport; In situ hybridization; Neural development (Mothe, A.J. (76) 73)

Cellular prion protein; Hippocampal neuron; Laminin; Neurite outgrowth; PC-12 cell line (Graner, E. (76) 85)

Extracellular signal regulated kinase
p38 kinase; AP-1; c-fos; c-jun (Won, J.-S. (76) 396)

Angiotensin II; AT_2 receptor; PC12W cells; Nerve growth factor (NGF); tyrosine phosphorylation (Stroth, U. (78) 175)

Extrasomatic localization and translation
Dendritic RNA targeting; RNA-binding protein; UV-crosslinking assay (Rehbein, M. (79) 192)

Eye
Circadian rhythm; Clock gene; Japanese quail; Pineal; Entrainment (Yoshimura, T. (78) 207

F

Facial nerve
Rat; Axotomy; Post-synaptic density-95; Carboxy-terminal PDZ ligand of neuronal nitric oxide synthase; Neuronal nitric oxide synthase; Synapse (Che, Y.H. (76) 325)

Facial nerve axotomy
Glutamate transporter; GLT-1; Microglia; Astrocytes; Facial nucleus; Rat (López-Redondo, F. (76) 429)

Facial nucleus
Glutamate transporter; GLT-1; Microglia; Astrocytes; Facial nerve axotomy; Rat (López-Redondo, F. (76) 429)

Factor B
Alternative complement pathway; Alzheimer's disease; Amyloid β peptide; Inflammation; Factor H; Factor I (Strohmeyer, R. (81) 7)

Factor H
Alternative complement pathway; Alzheimer's disease; Amyloid β peptide; Inflammation; Factor B; Factor I (Strohmeyer, R. (81) 7)

Factor I
Alternative complement pathway; Alzheimer's disease; Amyloid β peptide; Inflammation; Factor B; Factor H (Strohmeyer, R. (81) 7)

Fatty acid
Neurite outgrowth; Nerve growth factor; PC12 cell differentiation (Allen, G.W. (76) 315)

Fear conditioning
Ryanodine receptor; Ca^{2+}/calmodulin-dependent protein kinase II; Hippocampus; Knockout mouse; Memory (Kouzu, Y. (76) 142)

Feedback inhibition
Apomorphine; Bromocriptine; Tyrosine hydroxylase; Nigrostriatal dopaminergic neurons (Iwata, S.-i. (82) 133)

Feeding
Arcuate nucleus; Lateral hypothalamic area; Pro-opiomelanocortin (Johansen, J.E. (84) 97)

Female puberty
PACAP; PACAP receptor type I (PAC_1); Antisense PAC_1 oligodeoxynucleotide; LHRH (Choi, E.J. (80) 35)

Fentanyl
Morphine; Methadone; Endomorphin; Opioid receptor (Chaturvedi, K. (76) 64)

Ferric chloride
GLAST; Glutamate; Transporter; Epilepsy; Hippocampus (Doi, T. (75) 105)

Fibroblast growth factor 2
Edg-1; Edg-5; GTP binding protein; Pertussis toxin; Sphingosine 1-phosphate (Sato, K. (85) 151

Fish
Neuronal nitric oxide synthase; Cerebellum; In situ hybridization; Salmon (*Salmo salar*) (Øyan, A.M. (78) 38)

FKBP12
Cerebral ischemia; Immunophilin; Calcium; Immunohistochemistry; Rat (Kato, H. (84) 58)

Fluid percussion
Traumatic brain injury; Chronic ethanol; Neurotrophin; Neurotrophin receptor; In situ hybridization; Neuronal plasticity (Zhang, L. (79) 174)

Fluorescent cyclic nucleotides
Protein kinase A; Acetylcholine; Brain (Mucignat-Caretta, C. (80) 233)

FM1-43
Synapsin; NG108-15; Ca^{2+} imaging; Synaptic vesicle recycling; ATP release (Sugiyama, T. (85) 133)

Focal cerebrocortical lesion
Spreading depression; NGFI-A, c-*fos*, c-*jun*; Noradrenaline; Injury/recovery, neuroprotection; In situ hybridization; Rat (Shen, P.-J. (83) 133)

Food intake
Serotonin; Leptin receptor; Brainstem; Hypothalamus (Collin, M. (81) 51)

Forskolin
Purα; Single-stranded DNA binding protein; CRE (Sadakata, T. (77) 47)

Fos
Hippocampus; PKA; CREB; MAPK; Elk-1; One-trial avoidance; Rat (Cammarota, M. (76) 36)

AP-1; Synaptic terminals; Fos-related antigen; Inhibitory avoidance; Hippocampus (Paratcha, G. (78) 120)

c-*fos*
p38 kinase; Extracellular signal regulated kinase; AP-1; c-jun (Won, J.-S. (76) 396)

Co-sensitization; Morphine; MDMA; Cocaine; LSD; THC; In situ hybridization (Erdtmann-Vourliotis, M. (77) 55)

Dopamine-β-hydroxylase; Tyrosine hydroxylase; GnRH; Coitus; Brainstem (Caba, M. (77) 222)

c-Fos
Gonadotropin-releasing hormone; Hypothalamus; Immunocytochemistry, In situ hybridization; Coitus (Caba, M. (78) 69)

Fos-related antigen
AP-1; Synaptic terminals; Fos; Inhibitory avoidance; Hippocampus (Paratcha, G. (78) 120

Fovea
Retina; Photoreceptor; Cone photoreceptor; Protein tyrosine phosphatase; PRL-1 (Yarovinsky, T.O. (77) 95)

Fragile X mental retardation protein
Fragile X syndrome; Experience dependent plasticity; Kainic acid; Seizures; Calcineurin (Todd, P.K. (80) 17)

Fragile X syndrome
Fragile X mental retardation protein; Experience dependent plasticity; Kainic acid; Seizures; Calcineurin (Todd, P.K. (80) 17)

Frontal cortex
C7-1; Aging; V-ATPase; Regional distribution; Gene expression (Hung, H.-C. (75) 330)

Schizophrenia; Dopamine release; Psychosis; Kinase; Calcium-calmodulin-dependent protein kinase IIβ; Chromosome 7; Antipsychotic drug; Caudate nucleus; Putamen (Novak, G. (82) 95)

G

Gö6976
iNOS; PKC; Microglia; Post-transcription; Glia; Lipopolysaccharide (Jeohn, G.-H. (79) 18)

GABAergic
Insulin-like growth factor; Binding protein; Sensorimotor (Naeve, G.S. (75) 185)

GABARAP
UNC-51 protein kinase; GATE-16; Axonal elongation; Vesicular transport; Autophagy (Okazaki, N. (85) 1)

$GABA_A$
Hippocampal formation; Human brain; Immunohistochemistry (Wainwright, A. (80) 228)

Inferior olive; Deep cerebellar nuclei; Purkinje cell; Corticotropin releasing factor; In situ hybridization (Frostholm, A. (85) 200)

$GABA_A$ receptor
Cocaine; Subunit mRNA; [^{35}S]TBPS binding; Time course (Yamaguchi, M. (81) 155)

$GABA_A$ receptor γ3 subunit variant
Genomic structure; Alternative splicing; Protein kinase C phosphorylation (Poulsen, C.F. (78) 201)

$GABA_B$
Receptor; Distribution; Electron microscopy; Antibody (Ige, A.O. (83) 72

$GABA_B$ receptor
Periplasmic binding proteins; G-protein coupled receptor; Leucine-isoleucine-valine binding protein; Calcium-sensing receptor (Peltekova, V. (76) 180)

Antibody; Co-localisation; Confocal microscopy; Heterodimer; Immunohistochemistry (Billinton, A. (77) 111)

GAERS
Transporter; Glutamate; GLT-1; GLAST; mRNA; Epilepsy (Ingram, E.M. (75) 96)

Gap junction
Connexin; Spatial buffering (Söhl, G. (83) 44)

GATE-16
UNC-51 protein kinase; GABARAP; Axonal elongation; Vesicular transport; Autophagy (Okazaki, N. (85) 1)

GDNF
5′-Untranslated region; Promoter regulation; Glial cell line; Core promoter (Tanaka, M. (85) 91)

Gel shift assay
Transcription factor; Long-term potentiation (Williams, J.M. (77) 258)

Gene
Adenosine; Adenosine deaminase (Mackiewicz, M. (80) 252)

Opioid growth factor receptor; Mouse; cDNA; mRNA (Zagon, I.S. (84) 106)

Gene expression
6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase; Brain glycolysis (Goren, N. (75) 138)

Nitric oxide synthase; Nerve growth factor inducibility; Signal transduction mechanism; Ets factor (Rife, T.K. (75) 225)

C7-1; Aging; V-ATPase; Frontal cortex; Regional distribution (Hung, H.-C. (75) 330)

Stat3; Jak2; PSD; Synaptic plasticity (Murata, S. (78) 80)

Presenilin; Alzheimer's disease; Hippocampus; Cerebellum (McMillan, P.J. (78) 138)

Dopamine receptors; Hypoxia; Tyrosine hydroxylase (Gross, J. (79) 110)

Sec6; Exocyst; Promoter; Transcription (Chin, L.-S. (79) 127)

Poly (ADP-ribose) polymerase; PARP; Ischemia; Stroke; Hippocampus; Apoptosis; DNA repair (Liu, J. (80) 7)

Intermediate filament; Transgenic tadpole; NF-M; Neuronal intermediate filaments (Roosa, J.R. (82) 35

Brain-specific phosphate cotransporter; DNPI; In situ hybridization histochemistry; Rat (Hisano, S. (83) 34)

Chronic ethanol treatment; Withdrawal; Rat brain; Calmodulin mRNAs; Quantitative in situ hybridization (Vizi, S. (83) 63)

Cocaine self-administration; In situ hybridisation histochemistry; Monoamine transporter; Enkephalin; Substance P (Arroyo, M. (83) 107)

Stress; Hypothalamic–pituitary–adrenal (Follesa, P. (84) 52)

Gene knockout mice
Immediate early genes; Transcription factors; Sleep; REM sleep; Circadian rhythm (Shiromani, P.J. (80) 75)

Gene regulation
Alzheimer's disease; β-Amyloid precursor protein; Nerve growth factor; Neuronal differentiation; PC12 cells; Promoter; Transfection (Lahiri, D.K. (77) 185)

Brain-derived neurotrophic factor; Kainic acid; Pentylenetetrazol; Hippocampus; Barrel cortex; Somatosensory cortex (Nanda, S.A. (78) 1)

Gene structure
Neuronal differentiation; P19 cell; NDRF (neuroD-related factor); Basic helix–loop–helix transcription factor (Oda, H. (77) 37)

Neuropeptide Y; Cell-surface expression; Green fluorescence protein; Chromosomal localisation (Parker, R.M.C. (77) 199)

Gene therapy
Brain-derived neurotrophic factor; 5,7-Dihydroxytryptamine; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Serotonin; Dopamine; Striatum (Frechilla, D. (76) 306)

Gene transcription
Repressor; DNA binding; Deletion analysis; Oligomerization; Glycosylation; Zinc finger (Lee, J.-H. (80) 88)

Gene transfer
Long-term expression; Tyrosine hydroxylase promoter; Neurofilament promoter; Herpes simplex virus vector (Zhang, G.-r. (84) 17)

Genistein
Suprachiasmatic nucleus; Circadian rhythm; *junB*; Spontaneous expression; Light; Tyrphostin (Dong, Y. (77) 29)

KCNQ2; Epilepsy; Potassium channel; Voltage-clamp; Oocyte; Tyrosine phosphorylation (Jow, F. (80) 269)

Genomic sequence
Alternative splicing; Receptor; Opioid; Nociceptin; Orphanin FQ (Xie, G.-x. (77) 1

Genomic structure
$GABA_A$ receptor γ3 subunit variant; Alternative splicing; Protein kinase C phosphorylation (Poulsen, C.F. (78) 201)

μ Opioid receptor; Anamniote vertebrate; Molecular evolution (Barrallo, A. (84) 1)

GFRα-1
Glial cell line-derived neurotrophic factor; Neurturin; Artemin; Persephin; *c-ret*; GFRα-2; GFRα-3; Cochlea; RT–PCR (Stöver, T. (76) 25)

GFRα-2
Glial cell line-derived neurotrophic factor; Neurturin; Artemin; Persephin; *c-ret*; GFRα-1; GFRα-3; Cochlea; RT–PCR (Stöver, T. (76) 25)

GFRα-3
Glial cell line-derived neurotrophic factor; Neurturin; Artemin; Persephin; *c-ret*; GFRα-1; GFRα-2; Cochlea; RT–PCR (Stöver, T. (76) 25)

GLAST
Transporter; Glutamate; GLT-1; mRNA; GAERS; Epilepsy (Ingram, E.M. (75) 96)

Glutamate; Transporter; Ferric chloride; Epilepsy; Hippocampus (Doi, T. (75) 105)

Glaucoma
Neural cell adhesion molecule; Human optic nerve; Type 1B astrocyte; Reactive astrocyte; Lamina cribrosa; Cell culture (Ricard, C.S. (81) 62)

Glia
P2X receptor; ATP; Single-cell RT-PCR; Ligand-gated ion channel; Retina; Müller cell (Jabs, R. (76) 205)

Gö6976; iNOS; PKC; Microglia; Post-transcription; Lipopolysaccharide (Jeohn, G.-H. (79) 18)

Neurotoxicity; Lipopolysaccharide; Endotoxin; Neuroprotection; Protein kinase C (Jeohn, G.-H. (79) 32)

Lipopolysaccharide; Neural cell adhesion molecules; Nitric oxide (Chang, R.C.C. (81) 197)

Glial cell
Neuronal culture; Synaptogenesis; Cell contact; Tetrodotoxin; RNA expression (Lesuisse, C. (81) 92)

Glial cell line
GDNF; 5'-Untranslated region; Promoter regulation; Core promoter (Tanaka, M. (85) 91)

Glial cell line-derived neurotrophic factor
Neurturin; Artemin; Persephin; *c-ret*; GFRα-1; GFRα-2; GFRα-3; Cochlea; RT–PCR (Stöver, T. (76) 25

Glial fibrillary acid protein
Potassium channel; Baseline conductance; Immunohistochemistry; Expression; Colocalization; Central nervous system (Kindler, C.H. (80) 99)

Glioblastoma
Calcium-sensing receptor; Tumor Cells; Ca^{2+}-activated potassium channel (Ye, C. (80) 177)

Glioma
Cytokines; Oncostatin M; Signal transduction; Jak-Stat; Growth inhibition (Halfter, H. (80) 198)

GLT-1
Transporter; Glutamate; GLAST; mRNA; GAERS; Epilepsy (Ingram, E.M. (75) 96)

Glutamate transporter; Microglia; Astrocytes; Facial nerve axotomy; Facial nucleus; Rat (López-Redondo, F. (76) 429)

Glucocorticoid
Neurotrophin; Neurotrophic factor; Diurnal; Corticosterone (Schaaf, M.J.M. (75) 342)

Adrenalectomy; Corticosteroid receptor; Mineralocorticoid receptor; Hippocampus; Dorsal raphe nucleus; Serotonin receptor (Neumaier, J.F. (82) 65)

Glucocorticoid negative feedback
Glucocorticoid receptor; Mineralocorticoid receptor; mRNA; hnRNA; Strain effect; Individual difference (Paskitti, M.E. (80) 142)

Glucocorticoid receptor
Mineralocorticoid receptor; Glucocorticoid negative feedback; mRNA; hnRNA; Strain effect; Individual difference (Paskitti, M.E. (80) 142)

Glucose regulated protein
Endoplasmic reticulum; Homocysteine toxicity; Hsp70; Neuronal cell culture; Stress response (Althausen, S. (84) 32)

Glutamate
Transporter; GLT-1; GLAST; mRNA; GAERS; Epilepsy (Ingram, E.M. (75) 96)

GLAST; Transporter; Ferric chloride; Epilepsy; Hippocampus (Doi, T. (75) 105)

Auditory brain stem; Excitatory amino acid; In situ hybridization; Deafness (Nakagawa, H. (77) 246)

Cognitive deficits; LTP; Memory; NMDA; Caloric restriction (Eckles-Smith, K. (78) 154)

Excitatory amino acid transporter; RNA; Cleavage; Polyadenylation; Neurodegeneration (Münch, C. (80) 244)

Metabotropic glutamate receptor; Excitatory amino acid transporter; Hippocampus; In situ hybridization; Schizophrenia (Ohnuma, T. (85) 24)

Glutamate receptor
α-Actinin-2; Striatum; NMDA receptor; Localization; Immunoprecipitation (Dunah, A.W. (79) 77)

Post-mortem delay; Protein stability; Immunoblot; Human brain; Alzheimer's disease (Wang, Y. (80) 123)

Cytokine; Dizocilpine maleate; In situ hybridization histochemistry; (*R*)-CPP; Seizure (Eriksson, C. (85) 103)

Glutamate release
Nefiracetam; Anti-dementia drug; Nicotinic acetylcholine receptor; Protein kinase C; Sustained facilitation; Hippocampal synaptic transmission (Nishizaki, T. (80) 53)

Glutamate transporter
GLT-1; Microglia; Astrocytes; Facial nerve axotomy; Facial nucleus; Rat (López-Redondo, F. (76) 429)

Glutamic acid decarboxylase
Dopamine; Signaling; γ-Aminobutyric acid; Cell culture; Differentiation (Küppers, E. (81) 19)

Glutaminase
cDNA; Baculovirus expression; Mitochondria; Stroke (Holcomb, T. (76) 56)

Glutathione
Mitochondria; Hydrogen peroxide; Respiration; Oxidative phosphorylation (Sims, N.R. (77) 176)

Thiol disulfide oxidoreductase; Thioltransferase; Oxidative stress; Brain; Human (Balijepalli, S. (85) 123)

Glutathione peroxidase
Brain; Electroconvulsive shock; Rat; Seizure; Superoxide dismutase (Eraković, V. (76) 266)

Selenium; Substantia nigra; Striatum; Tyrosine hydroxylase; Dopamine transporter (Romero-Ramos, M. (84) 7)

Glycosylation
Gene transcription; Repressor; DNA binding; Deletion analysis; Oligomerization; Zinc finger (Lee, J.-H. (80) 88)

GnRH
C-fos; Dopamine-β-hydroxylase; Tyrosine hydroxylase; Coitus; Brainstem (Caba, M. (77) 222)

Gonadotropin-releasing hormone
c-Fos; Hypothalamus; Immunocytochemistry, In situ hybridization; Coitus (Caba, M. (78) 69

GPI-anchor
IgLON; Retina; Cell–cell recognition; Neurite outgrowth (Lodge, A.P. (82) 84)

Granin
Proopiomelanocortin; Prohormone convertase; Pituitary; Development; *Xenopus laevis* (Holling, T.M. (75) 70)

Granule cell
Brain-derived neurotrophic factor; Apoptosis; Subventricular zone; Rostral migratory stream; Olfactory bulb; Dentate gyrus (Linnarsson, S. (75) 61)

Nuclear hormone receptor; Orphan receptor TR4; Brain development (Van Schaick, H.S.A. (77) 104)

Green fluorescence protein
Neuropeptide Y; Cell-surface expression; Gene structure; Chromosomal localisation (Parker, R.M.C. (77) 199)

Grid analysis
cDNA; Subtractive hybridization; Magnocellular; Parvocellular; Visual cortex (Prasad, S.S. (82) 11)

Growth factor
Interleukin; Tumor necrosis factor; Piriform; Prefrontal; Cortex; Hippocampus; Amygdala; Hypothalamus; Neuroprotection; Central nervous system (Plata-Salamán, C.R. (75) 248)

Growth inhibition
Glioma; Cytokines; Oncostatin M; Signal transduction; Jak-Stat (Halfter, H. (80) 198)

GTP binding protein
Edg-1; Edg-5; Fibroblast growth factor 2; Pertussis toxin; Sphingosine 1-phosphate (Sato, K. (85) 151)

Guanylyl cyclase-B
Atrial natriuretic peptide; C-type natriuretic peptide; Cyclic GMP; Pineal (Müller, D. (75) 321)

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H-7
SH-SY5Y neuroblastoma; Staurosporine; Caspase; PARP; Apoptosis (López, E. (85) 61)

Hair cell
Cochlea; KCNQ4; Expression pattern; In situ hybridization (Beisel, K.W. (82) 137)

Heat shock protein
Asphyxia; Cardiac arrest; Chaperonin; Ischemia (Hickey, R.W. (79) 169

HEK cells
Excitotoxicity; Stroke; Transfection (Anegawa, N.J. (77) 163)

Heme oxygenase
Spinal cord; Tolerance (Li, X. (75) 179)

Herpes simplex virus vector
Long-term expression; Tyrosine hydroxylase promoter; Neurofilament promoter; Gene transfer (Zhang, G.-r. (84) 17)

Heterodimer
Antibody; Co-localisation; Confocal microscopy; $GABA_B$ receptors; Immunohistochemistry (Billinton, A. (77) 111)

Hippocampal formation
Human brain; Immunohistochemistry; $GABA_A$ (Wainwright, A. (80) 228)

Hippocampal neuron
Cellular prion protein; Extracellular matrix; Laminin; Neurite outgrowth; PC-12 cell line (Graner, E. (76) 85)

Hippocampal synaptic transmission
Nefiracetam; Anti-dementia drug; Nicotinic acetylcholine receptor; Protein kinase C; Glutamate release; Sustained facilitation (Nishizaki, T. (80) 53)

Hippocampus
GLAST; Glutamate; Transporter; Ferric chloride; Epilepsy (Doi, T. (75) 105)

Corticotropin-releasing hormone; Immobilization stress; In situ hybridization; MK-801; *N*-Methyl-D-aspartic acid (Givalois, L. (75) 166)

Interleukin; Tumor necrosis factor; Growth factor; Piriform; Prefrontal; Cortex; Amygdala; Hypothalamus; Neuroprotection; Central nervous system (Plata-Salamán, C.R. (75) 248)

Immediate early gene; Amygdala; Striatum (Radulovic, J. (75) 271)

Long-term potentiation, LTP; Learning; Mental retardation; Electroconvulsive shock; Immediate-early genes; In situ hybridization (Valentine, G. (75) 337)

PKA; CREB; MAPK; Elk-1; Fos; One-trial avoidance; Rat (Cammarota, M. (76) 36)

Ryanodine receptor; Fear conditioning; Ca^{2+}/calmodulin-dependent protein kinase II; Knockout mouse; Memory (Kouzu, Y. (76) 142)

Acetylcholine; Dopamine; In vivo dialysis; Antisense; D-5 receptor (Hersi, A.I. (76) 336)

Brain-derived neurotrophic factor; Kainic acid; Pentylenetetrazol; Gene regulation; Barrel cortex; Somatosensory cortex (Nanda, S.A. (78) 1

AP-1; Synaptic terminals; Fos; Fos-related antigen; Inhibitory avoidance (Paratcha, G. (78) 120)

Presenilin; Alzheimer's disease; Cerebellum; Gene expression (McMillan, P.J. (78) 138)

Stress; Neuropeptide Y; Arcuate nucleus; Dentate gyrus (Conrad, C.D. (79) 102)

In situ hybridization histochemistry; Aging; Circadian Rhythm; Spatial learning; Psychiatric disorders (Kohen, R. (79) 163)

Poly (ADP-ribose) polymerase; PARP; Gene expression; Ischemia; Stroke; Apoptosis; DNA repair (Liu, J. (80) 7)

Amygdala; Immediate-early genes; Neocortex (Malkani, S. (80) 153)

Alzheimer's disease; β-Amyloid; Neurotoxicity; Brain-derived neurotrophic factor (Tang, Ya.-P. (80) 188)

Estrogen receptor beta; Splice variant; Hypothalamus (Price, R.H. (80) 260)

Rat; Cerebral cortex; Cerebellum; Macroglia; Optic nerve (Fogarty, D.J. (81) 164)

Adrenalectomy; Corticosteroid receptor; Mineralocorticoid receptor; Glucocorticoid; Dorsal raphe nucleus; Serotonin receptor (Neumaier, J.F. (82) 65)

Progenitor cell; Retinoic acid; Proliferation; RARγ (Chung, J.-J. (83) 52)

Glutamate; Metabotropic glutamate receptor; Excitatory amino acid transporter; In situ hybridization; Schizophrenia (Ohnuma, T. (85) 24)

Histamine
Lysophospatidic acid (LPA); Substance P (SP); Diphenhydramine (DPH); Pertussis toxin (PTX); Polymodal nociceptor; Dorsal root ganglion (DRG) (Renbäck, K. (75) 350)

Brain; Receptor; Splicing variants (Liu, C. (83) 145)

hnRNA
Glucocorticoid receptor; Mineralocorticoid receptor; Glucocorticoid negative feedback; mRNA; Strain effect; Individual difference (Paskitti, M.E. (80) 142)

HO-1
Hsp70; Hsp27; Stress response; Synapse; Hyperthermia (Bechtold, D.A. (75) 309)

Homocysteine toxicity
Endoplasmic reticulum; Glucose regulated protein; Hsp70; Neuronal cell culture; Stress response (Althausen, S. (84) 32

Homophilic binding
DSCAM; Cell adhesion molecule; Ig (Agarwala, K.L. (79) 118)

Horizontal limb
Cingulate cortex; Olfactory bulb; Basal forebrain; Neurotrophin; Estrogen receptor (Jezierski, M.K. (85) 77)

Hormone replacement therapy
Estrogen receptor beta; Macaque; Ovarian steroid; Brain (Gundlah, C. (76) 191)

Housekeeping genes
Ischemia; Caspase; mRNA (Harrison, D.C. (75) 143)

Hsp27
Hsp70; Stress response; Synapse; Hyperthermia; HO-1 (Bechtold, D.A. (75) 309)

Hsp70
Hsp27; Stress response; Synapse; Hyperthermia; HO-1 (Bechtold, D.A. (75) 309)

Endoplasmic reticulum; Glucose regulated protein; Homocysteine toxicity; Neuronal cell culture; Stress response (Althausen, S. (84) 32)

5-HT$_3$ receptor
Splice variant; Phosphorylation; Desensitization; Whole-cell patch-clamp; Down-regulation (Hubbard, P.C. (81) 101)

Human
Potassium channel; Tandem pore domain; Degenerate PCR; Cerebellum; Taqman mRNA analysis (Chapman, C.G. (82) 74)

Thiol disulfide oxidoreductase; Thioltransferase; Oxidative stress; Brain; Glutathione (Balijepalli, S. (85) 123)

Human adenovirus
Neuronal nicotinic receptor; Receptor assembly; α7 subunit; α4β2 receptor; Cell-specific assembly factor (Sweileh, W. (75) 293)

Human aspartoacylase
Canavan disease; *N*-acetylaspartate; Amide hydrolysis; Acetate deficiency hypothesis; Acetate supplementation therapy (Namboodiri, M.A.A. (77) 285)

Human brain
NMDA receptor; NMDAR1 subunit; Alternative splicing; Temporal lobe epilepsy (Musshoff, U. (76) 377)

γ-Hydroxybutyric acid; Quantitative autoradiography; Monkey brain; Receptor binding (Castelli, M.P. (78) 91)

Post-mortem delay; Protein stability; Glutamate receptor; Immunoblot; Alzheimer's disease (Wang, Y. (80) 123)

Hippocampal formation; Immunohistochemistry; GABA$_A$ (Wainwright, A. (80) 228

Immunohistochemistry; Somatostatin receptor; Localisation (Selmer, I.-S. (82) 114)

Small conductance calcium-activated potassium channel; SK channel; Quantitative PCR; Expression (Rimini, R. (85) 218)

Human neural stem cells
Neurospheres; Transcriptional regulators (Palm, K. (78) 192)

Human neuroblastoma cells
CRE site; Pituitary adenylate cyclase activating peptide; Transcription; Vasoactive intenstinal polypeptide gene expression (Georg, B. (79) 67)

Human optic nerve
Neural cell adhesion molecule; Type 1B astrocyte; Reactive astrocyte; Lamina cribrosa; Glaucoma; Cell culture (Ricard, C.S. (81) 62)

Human postmortem
Neurotrophic factor; Brain-derived neurotrophic factor; Basal forebrain; Cholinergic; Neurodegeneration (Holsinger, R.M.D. (76) 347)

Huntington disease
N-myc; c-myc; Alzheimer disease; Parkinson disease; Senile plaques; βA4-amyloid (Ferrer, I. (77) 270)

***hVH-5* Gene**
Entorhinal cortex lesion; Odor stimulation; In situ hybridization; MAPK phosphatase (Bernabeu, R. (75) 113)

Hydrogen peroxide
Mitochondria; Respiration; Oxidative phosphorylation; Glutathione (Sims, N.R. (77) 176)

γ-Hydroxybutyric acid
Quantitative autoradiography; Human brain; Monkey brain; Receptor binding (Castelli, M.P. (78) 91)

6-Hydroxydopamine
Basal ganglia; *p*-Chloroamphetamine; Preprotachykinin; Preproenkephalin; Parkinson's disease (Basura, G.J. (81) 80)

Hyperosmolarity
Cysteine dioxygenase; Cysteine sulfinate decarboxylase; Aldose reductase; mRNA; Salt-loading (Bitoun, M. (77) 10)

Hyperpolarization-activated channel
I_h; Pacemaker activity; In situ hybridization; Molecular cloning; Rat (Monteggia, L.M. (81) 129)

Hyperthermia
Hsp70; Hsp27; Stress response; Synapse; HO-1 (Bechtold, D.A. (75) 309

Hypocretin
Orexin; Orexin receptor; Pituitary; Immunohistochemistry; In situ hybridization (Date, Y. (76) 1)

In situ hybridization histochemistry; Leptin; Orexin; Orexin receptor; Postnatal development (Yamamoto, Y. (78) 108)

Hypothalamic–pituitary–adrenal
Stress; Gene expression (Follesa, P. (84) 52)

Hypothalamus
Interleukin; Tumor necrosis factor; Growth factor; Piriform; Prefrontal; Cortex; Hippocampus; Amygdala; Neuroprotection; Central nervous system (Plata-Salamán, C.R. (75) 248)

Interleukin 18; AcPL; Binding protein; RT-PCR (Wheeler, R.D. (77) 290)

c-Fos; Gonadotropin-releasing hormone; Immunocytochemistry, In situ hybridization; Coitus (Caba, M. (78) 69)

Rat; IL-1β; Receptor; RT-PCR (Parker, L.C. (79) 156)

Estrogen receptor beta; Splice variant; Hippocampus (Price, R.H. (80) 260)

Serotonin; Food intake; Leptin receptor; Brainstem (Collin, M. (81) 51)

Hypoxia
Brain; Excitability; Electrophysiology; Sodium channel; Tetrodotoxin (Xia, Y. (76) 211)

Dopamine receptors; Gene expression; Tyrosine hydroxylase (Gross, J. (79) 110)

H_2O_2
c-Jun-N-terminal kinase; Cell death; Neuronal cell; TNFα (Mielke, K. (75) 128)

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Ifenprodil
Macaque; MK-801; CGP39653; Receptor autoradiography; In situ hybridization (Ibrahim, H.M. (79) 1)

Ig
DSCAM; Cell adhesion molecule; Homophilic binding (Agarwala, K.L. (79) 118)

IκB-α
NF-κB; Caspase-3; Proteasome; MG-132, Ac-DEVD-CHO; Apoptosis (Qin, Z.-H. (80) 111)

IgLON
Retina; GPI-anchor; Cell–cell recognition; Neurite outgrowth (Lodge, A.P. (82) 84

IL-1β
Meninges; Proinflammatory cytokine; LPS; RT-PCR (Garabedian, B.V.-d. (75) 259)

Rat; Receptor; Hypothalamus; RT-PCR (Parker, L.C. (79) 156)

Immediate-early gene
Hippocampus; Amygdala; Striatum (Radulovic, J. (75) 271)

Long-term potentiation, LTP; Hippocampus; Learning; Mental retardation; Electroconvulsive shock; In situ hybridization (Valentine, G. (75) 337)

Transcription factors; Gene knockout mice; Sleep; REM sleep; Circadian rhythm (Shiromani, P.J. (80) 75)

Amygdala; Hippocampus; Neocortex (Malkani, S. (80) 153)

zif-268; egr-1; NGFI-A; krox-24; Vocal learning (Whitney, O. (80) 279)

Immediate early gene Jun
Olfactory bulbectomy; Model of depression; Degeneration; Serotonergic reinnervation; Plasticity; Amygdala (Wrynn, A.S. (76) 7)

Immobilization stress
Corticotropin-releasing hormone; Hippocampus; In situ hybridization; MK-801; *N*-Methyl-D-aspartic acid (Givalois, L. (75) 166)

Immunoblot
Post-mortem delay; Protein stability; Glutamate receptor; Human brain; Alzheimer's disease (Wang, Y. (80) 123)

Immunocytochemistry
Protein kinase C; EGF; Two-hybrid system; EM (Oyasu, M. (76) 151)

Activating protein 1; Electrophoretic mobility shift assay; Photic regulation; Phase dependency; In situ hybridization; Suprachiasmatic nucleus (François-Bellan, A.M. (85) 161)

Immunocytochemistry
c-Fos; Gonadotropin-releasing hormone; Hypothalamus; In situ hybridization; Coitus (Caba, M. (78) 69)

Immunohistochemistry
Pterin-4α-carbinolamine dehydratase; Rat brain; Catecholamine; Tetrahydrobiopterin; Tyrosine hydroxylase (Depaepe, V. (75) 76)

Luteinizing hormone-releasing hormone; LHRH; In situ hybridization (Latimer, V.S. (75) 287)

Orexin; Hypocretin; Orexin receptor; Pituitary; In situ hybridization (Date, Y. (76) 1)

Adenylyl cyclase isoform; Cochlea; Stria vascularis (Drescher, M.J. (76) 289

CaM-kinase phosphatase; CaM-kinases; Protein phosphatase; Post synaptic density; Striatal cholinergic neuron (Nakamura, Y. (77) 76)

Antibody; Co-localisation; Confocal microscopy; $GABA_B$ receptors; Heterodimer (Billinton, A. (77) 111)

Potassium channel; Baseline conductance; Expression; Colocalization; Glial fibrillary acid protein; Central nervous system (Kindler, C.H. (80) 99)

Hippocampal formation; Human brain; $GABA_A$ (Wainwright, A. (80) 228)

Mouse models; Sensory loss/obesity syndromes; Tubby gene family; Subcellular localization (He, W. (81) 109)

Brain-derived neurotrophic factor; Capsaicin; Dorsal root ganglia; Pain; Reverse transcriptase-polymerase chain reactions; Spinal cord (Ha, S.-O. (81) 181)

Somatostatin receptor; Human brain; Localisation (Selmer, I.-S. (82) 114)

Cerebral ischemia; FKBP12; Immunophilin; Calcium; Rat (Kato, H. (84) 58)

Type II brain 4.1; Membrane skeleton; In situ hybridization; Neuronal paranode; The protein 4.1 family (Ohara, R. (85) 41)

Nucleus paraventricularis of the hypothalamus; Dopamine D1 receptor; Western blot; Double labeling; pCREB (Czyrak, A. (85) 209)

Immunophilin
Cerebral ischemia; FKBP12; Calcium; Immunohistochemistry; Rat (Kato, H. (84) 58)

Immunoprecipitation
Tyrosine; Phosphorylation; G protein; Internalization; Src (Kramer, H.K. (79) 55)

α-Actinin-2; Striatum; Glutamate receptor; NMDA receptor; Localization (Dunah, A.W. (79) 77)

Individual difference
Glucocorticoid receptor; Mineralocorticoid receptor; Glucocorticoid negative feedback; mRNA; hnRNA; Strain effect (Paskitti, M.E. (80) 142)

Induced expression
Erythropoietin receptor; Brain transcript; Alternative splicing; Upstream transcription; Anemic stress (Chin, K. (81) 29)

Inducible nitric oxide synthase
Neuronal PC12 cell; Argininosuccinate synthetase; Argininosuccinate lyase; Citrulline–NO cycle (Zhang, W.Y. (83) 1

Inferior olive
Deep cerebellar nuclei; Purkinje cell; $GABA_A$; Corticotropin releasing factor; In situ hybridization (Frostholm, A. (85) 200)

Inflammation
Amyloid precursor protein; Caspase-3; Apoptosis; Adenovirus vector; Alzheimer's disease (Masumura, M. (80) 219)

Alternative complement pathway; Alzheimer's disease; Amyloid β peptide; Factor B; Factor H; Factor I (Strohmeyer, R. (81) 7)

Inhibitory avoidance
AP-1; Synaptic terminals; Fos; Fos-related antigen; Hippocampus (Paratcha, G. (78) 120)

Injury/recovery, neuroprotection
Focal cerebrocortical lesion; Spreading depression; NGFI-A, c-*fos*, c-*jun*; Noradrenaline; In situ hybridization; Rat (Shen, P.-J. (83) 133)

Innate immunity
Antibacterial peptide; Opioid; Neuroimmunity (Tasiemski, A. (76) 237)

Inner ear
Sox10; Cochlea; Organ of Corti; Supporting cell; Otic vesicle (Watanabe, K.-i. (84) 141)

iNOS
Gö6976; PKC; Microglia; Post-transcription; Glia; Lipopolysaccharide (Jeohn, G.-H. (79) 18)

Spinal cord; Apoptosis; Macrophage (Satake, K. (85) 114)

Insulin-like growth factor
Binding protein; Sensorimotor; GABAergic (Naeve, G.S. (75) 185)

Interleukin
Tumor necrosis factor; Growth factor; Piriform; Prefrontal; Cortex; Hippocampus; Amygdala; Hypothalamus; Neuroprotection; Central nervous system (Plata-Salamán, C.R. (75) 248)

Interleukin-10
Microglia; Lipopolysaccharide; NF-κB; Interleukin-6 (Heyen, J.R.R. (77) 138)

Interleukin 18
AcPL; Binding protein; Hypothalamus; RT-PCR (Wheeler, R.D. (77) 290)

Interleukin-6
Microglia; Lipopolysaccharide; NF-κB; Interleukin-10 (Heyen, J.R.R. (77) 138)

Intermediate filament
Transgenic tadpole; Gene expression; NF-M; Neuronal intermediate filaments (Roosa, J.R. (82) 35)

Internalization
Tyrosine; Phosphorylation; G protein; Src; Immunoprecipitation (Kramer, H.K. (79) 55

Invertebrate
MIF-1; Brain; Leech; Osmoregulation (Salzet, M. (76) 161)

Ire1α
ER stress; UPR; Alzheimer's disease; Neuro2a (Miyoshi, K. (85) 68)

Ischemia
Caspase; mRNA; Housekeeping genes (Harrison, D.C. (75) 143)

Mitogen-activated kinase; p38 MAPK; Oligodendrocytes (Irving, E.A. (77) 65)

Asphyxia; Cardiac arrest; Chaperonin; Heat shock protein (Hickey, R.W. (79) 169)

Poly (ADP-ribose) polymerase; PARP; Gene expression; Stroke; Hippocampus; Apoptosis; DNA repair (Liu, J. (80) 7)

Isoform
Phosphorylation; Calmodulin (GuptaRoy, B. (80) 26)

Ca^{2+}/calmodulin-dependent protein kinase II (CaM kinase II); P19 cell; Alternative splicing; Neural differentiation; Brain development (Donai, H. (85) 189)

I_h
Hyperpolarization-activated channel; Pacemaker activity; In situ hybridization; Molecular cloning; Rat (Monteggia, L.M. (81) 129)

J

Jak2
Stat3; PSD; Synaptic plasticity; Gene expression (Murata, S. (78) 80)

Jak-Stat
Glioma; Cytokines; Oncostatin M; Signal transduction; Growth inhibition (Halfter, H. (80) 198)

Japanese quail
Circadian rhythm; Clock gene; Eye; Pineal; Entrainment (Yoshimura, T. (78) 207)

JNK
Alzheimer's disease; Presenilin; β-Amyloid; Transgenic mouse; c-Jun (Shoji, M. (85) 221)

c-jun
p38 kinase; Extracellular signal regulated kinase; AP-1; c-fos (Won, J.-S. (76) 396)

c-Jun
PC 12; Survival; Differentiation; Sodium channel; JunB; AP-1 (Dragunow, M. (83) 20)

Alzheimer's disease; Presenilin; β-Amyloid; Transgenic mouse; JNK (Shoji, M. (85) 221

junB
Suprachiasmatic nucleus; Circadian rhythm; Spontaneous expression; Light; Tyrphostin; Genistein (Dong, Y. (77) 29)

JunB
PC 12; c-Jun; Survival; Differentiation; Sodium channel; AP-1 (Dragunow, M. (83) 20)

Junctional conductance
Connexin-32; Schwann cell; Luciferase assay (Wang, H.-L. (78) 146)

c-Jun-N-terminal kinase
Cell death; Neuronal cell; TNFα; H_2O_2 (Mielke, K. (75) 128)

K

Kainic acid
Calcium; Epilepsy; Excitotoxicity; Microtubule associated protein; Spectrin (Gary, D.S. (75) 89)

Brain-derived neurotrophic factor; Pentylenetetrazol; Gene regulation; Hippocampus; Barrel cortex; Somatosensory cortex (Nanda, S.A. (78) 1)

Fragile X syndrome; Fragile X mental retardation protein; Experience dependent plasticity; Seizures; Calcineurin (Todd, P.K. (80) 17)

KCNQ2
Epilepsy; Potassium channel; Voltage-clamp; Oocyte; Genistein; Tyrosine phosphorylation (Jow, F. (80) 269)

KCNQ4
Cochlea; Hair cell; Expression pattern; In situ hybridization (Beisel, K.W. (82) 137)

Kinase
Schizophrenia; Dopamine release; Psychosis; Calcium-calmodulin-dependent protein kinase IIβ; Chromosome 7; Antipsychotic drug; Frontal cortex; Caudate nucleus; Putamen (Novak, G. (82) 95)

Knock-out
Pituitary adenylate cyclase-activating polypeptide; PACAP; PACAP type 1 receptor; PAC1; Mutant; Learning; Memory (Sauvage, M. (84) 79)

Knock-out mouse
Ryanodine receptor; Fear conditioning; Ca^{2+}/calmodulin-dependent protein kinase II; Hippocampus; Memory (Kouzu, Y. (76) 142)

Opioid receptor; Autoradiography (Chen, H.-C. (76) 170)

μ-Opioid receptor; Dopamine receptor; Climbing behavior; Morphine; Naloxone (Jang, C.-G. (78) 204)

NMDAR1; nNOS; Alternative splicing; In situ hybridization; Western blotting (Putzke, J. (85) 13)

krox-24
Immediate early genes; zif-268; egr-1; NGFI-A; Vocal learning (Whitney, O. (80) 279)

L

L-Glutamate
Okadaic acid; Neurotoxicity; Cerebellar neuron; DNA fragmentation (Bezvenyuk, Z. (81) 191)

L1
Mutant mouse; *Disabled 1*; *Reelin* (Kojima, T. (75) 121)

L929 cells
AP-1; Clenbuterol; Nerve growth factor; 3T3 cells; Vitamin D receptor (Samina Riaz, S. (85) 179)

Lamina cribrosa
Neural cell adhesion molecule; Human optic nerve; Type 1B astrocyte; Reactive astrocyte; Glaucoma; Cell culture (Ricard, C.S. (81) 62)

Laminin
Cellular prion protein; Extracellular matrix; Hippocampal neuron; Neurite outgrowth; PC-12 cell line (Graner, E. (76) 85)

Lateral hypothalamic area
Arcuate nucleus; Feeding; Pro-opiomelanocortin (Johansen, J.E. (84) 97)

LDH release
Apoptosis; Cell death; Cytotoxicity; PARP (Bursztajn, S. (76) 363)

Lead
NMDA receptor; mRNA; Splice variant; Brain; Development (Guilarte, T.R. (76) 299)

Learning
Long-term potentiation, LTP; Hippocampus; Mental retardation; Electroconvulsive shock; Immediate-early genes; In situ hybridization (Valentine, G. (75) 337)

Dunce homolog; Rolipram (Thompson, B.E. (83) 94)

Pituitary adenylate cyclase-activating polypeptide; PACAP; PACAP type 1 receptor; PAC1; Mutant; Knock-out; Memory (Sauvage, M. (84) 79

Leech
MIF-1; Brain; Invertebrate; Osmoregulation (Salzet, M. (76) 161)

Lef-1/Tcf
Neural crest; Neurite; Tetracycline-responsive transactivator (Chou, A.H. (77) 232)

Leptin
Hypocretin; In situ hybridization histochemistry; Orexin; Orexin receptor; Postnatal development (Yamamoto, Y. (78) 108)

Leptin receptor
Serotonin; Food intake; Brainstem; Hypothalamus (Collin, M. (81) 51)

Leucine-isoleucine-valine binding protein
Periplasmic binding proteins; G-protein coupled receptor; $GABA_B$ receptor; Calcium-sensing receptor (Peltekova, V. (76) 180)

LHRH
Luteinizing hormone-releasing hormone; In situ hybridization; Immunohistochemistry (Latimer, V.S. (75) 287)

PACAP; PACAP receptor type I (PAC_1); Antisense PAC_1 oligodeoxynucleotide; Female puberty (Choi, E.J. (80) 35)

LHRH mRNA
PACAP; PACAP receptor type I (PAC_1); Progesterone; Antisense PAC_1 oligodeoxynucleotide (Ha, C.M. (78) 59)

Ligand-gated ion channel
P2X receptor; ATP; Single-cell RT-PCR; Retina; Müller cell; Glia (Jabs, R. (76) 205)

P2X receptor; ATP, single-cell RT-PCR; Retina; Bipolar cell (H. Wheeler-Schilling, T. (76) 415)

Light
Suprachiasmatic nucleus; Circadian rhythm; *junB*; Spontaneous expression; Tyrphostin; Genistein (Dong, Y. (77) 29)

Limbic system
Epilepsy; Rhinal cortex; Caspase-3; Neuronal apoptosis; DNA fragmentation (Kondratyev, A. (75) 216)

Lipopolysaccharide
Microglia; NF-κB; Interleukin-6; Interleukin-10 (Heyen, J.R.R. (77) 138)

Gö6976; iNOS; PKC; Microglia; Post-transcription; Glia (Jeohn, G.-H. (79) 18)

Neurotoxicity; Glia; Endotoxin; Neuroprotection; Protein kinase C (Jeohn, G.-H. (79) 32)

Glia; Neural cell adhesion molecules; Nitric oxide (Chang, R.C.C. (81) 197

Co-localisation
Antibody; Confocal microscopy; $GABA_B$ receptors; Heterodimer; Immunohistochemistry (Billinton, A. (77) 111)

Localization
α-Actinin-2; Striatum; Glutamate receptor; NMDA receptor; Immunoprecipitation (Dunah, A.W. (79) 77)

Immunohistochemistry; Somatostatin receptor; Human brain (Selmer, I.-S. (82) 114)

Locus coeruleus
Tyrosine hydroxylase; Phox2a; Noradrenergic phenotype; Development; Plasticity; Transcription factor (Bezin, L. (76) 275)

Aging; Alzheimer's disease; Tyrosine hydroxylase; Norepinephrine transporter; In situ; Locus coeruleus lesion (Szot, P. (84) 135)

Locus coeruleus lesion
Aging; Alzheimer's disease; Locus coeruleus; Tyrosine hydroxylase; Norepinephrine transporter; In situ (Szot, P. (84) 135)

Long-term expression
Tyrosine hydroxylase promoter; Neurofilament promoter; Herpes simplex virus vector; Gene transfer (Zhang, G.-r. (84) 17)

Long-term facilitation
Ubiquitin; *Aplysia* neuron; Serotonin; Polyubiquitin gene (Hegde, A.N. (76) 424)

Long-term potentiation
Hippocampus; Learning; Mental retardation; Electroconvulsive shock; Immediate-early genes; In situ hybridization (Valentine, G. (75) 337)

Transcription factor; Gel shift assay (Williams, J.M. (77) 258)

LPS
Meninges; Proinflammatory cytokine; IL-1β; RT-PCR (Garabedian, B.V.-d. (75) 259)

LSD
Co-sensitization; Morphine; MDMA; Cocaine; THC; *c-fos*; In situ hybridization (Erdtmann-Vourliotis, M. (77) 55)

LTP
Cognitive deficits; Memory; NMDA; Caloric restriction; Glutamate (Eckles-Smith, K. (78) 154)

Luciferase assay
Connexin-32; Schwann cell; Junctional conductance (Wang, H.-L. (78) 146)

Lungfish
cDNA cloning; Myelin; Proteolipid protein; DM20; Phylogenetic relation (Tohyama, Y. (80) 256

Luteinizing hormone-releasing hormone
LHRH; In situ hybridization; Immunohistochemistry (Latimer, V.S. (75) 287)

Lyase
α-Amidating enzyme; *Aplysia californica*; Monooxygenase (Fan, X. (82) 25)

Lysophospatidic acid (LPA)
Substance P (SP); Histamine; Diphenhydramine (DPH); Pertussis toxin (PTX); Polymodal nociceptor; Dorsal root ganglion (DRG) (Renbäck, K. (75) 350)

NF-M
Intermediate filament; Transgenic tadpole; Gene expression; Neuronal intermediate filaments (Roosa, J.R. (82) 35)

M

Macaque
Estrogen receptor beta; Ovarian steroid; Brain; Hormone replacement therapy (Gundlah, C. (76) 191)

Ifenprodil; MK-801; CGP39653; Receptor autoradiography; In situ hybridization (Ibrahim, H.M. (79) 1)

Macroglia
Rat; Hippocampus; Cerebral cortex; Cerebellum; Optic nerve (Fogarty, D.J. (81) 164)

Macrophage
Spinal cord; iNOS; Apoptosis (Satake, K. (85) 114)

Magnocellular
Grid analysis; cDNA; Subtractive hybridization; Parvocellular; Visual cortex (Prasad, S.S. (82) 11)

MAPK
Hippocampus; PKA; CREB; Elk-1; Fos; One-trial avoidance; Rat (Cammarota, M. (76) 36)

MAP kinase
Delta opioid receptor; Morphine; Receptor down regulation; Opioid peptide; G protein-coupled receptor (Chaturvedi, K. (80) 166)

MAPK phosphatase
hVH-5 Gene; Entorhinal cortex lesion; Odor stimulation; In situ hybridization (Bernabeu, R. (75) 113)

MAP tau
Cryptic splice sites; Branch point competition; *Cis* determinants and *trans* factors in regulation of alternative splicing (Wei, M.-L. (80) 207

MDMA
Co-sensitization; Morphine; Cocaine; LSD; THC; c-*fos*; In situ hybridization (Erdtmann-Vourliotis, M. (77) 55)

Melatonin
Arylalkylamine *N*-acetyltransferase; Enzyme stability; Pineal; Retina; Mutagenesis (Craft, C.M. (75) 198)

Membrane skeleton
Type II brain 4.1; In situ hybridization; Immunohistochemistry; Neuronal paranode; The protein 4.1 family (Ohara, R. (85) 41)

Memory
Ryanodine receptor; Fear conditioning; Ca^{2+}/calmodulin-dependent protein kinase II; Hippocampus; Knockout mouse (Kouzu, Y. (76) 142)

Cognitive deficits; LTP; NMDA; Caloric restriction; Glutamate (Eckles-Smith, K. (78) 154)

Pituitary adenylate cyclase-activating polypeptide; PACAP; PACAP type 1 receptor; PAC1; Mutant; Knock-out; Learning (Sauvage, M. (84) 79)

Meninges
Proinflammatory cytokine; IL-1β; LPS; RT-PCR (Garabedian, B.V.-d. (75) 259)

Mental retardation
Long-term potentiation, LTP; Hippocampus; Learning; Electroconvulsive shock; Immediate-early genes; In situ hybridization (Valentine, G. (75) 337)

Metabotropic glutamate receptors
Thalamus; Brainstem; Monoarthritis; Pain; In situ hybridisation (Lourenço Neto, F. (81) 140)

Metabotropic glutamate receptor 4
Aging; Metabotropic glutamate receptor 7; In situ hybridization; Rat brain (Simonyi, A. (82) 101)

Metabotropic glutamate receptor 7
Aging; Metabotropic glutamate receptor 4; In situ hybridization; Rat brain (Simonyi, A. (82) 101)

Metabotropic glutamate receptor
Glutamate; Excitatory amino acid transporter; Hippocampus; In situ hybridization; Schizophrenia (Ohnuma, T. (85) 24)

Methadone
Morphine; Endomorphin; Fentanyl; Opioid receptor (Chaturvedi, K. (76) 64)

Methamphetamine
Nucleus; Transcription factor; AP-1; CREB; Confocal laser scanning microscopy (Asanuma, M. (80) 237

Apoptosis; TUNEL; Caspase (Deng, X. (83) 121)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine
Brain-derived neurotrophic factor; 5,7-Dihydroxytryptamine; Gene therapy; Serotonin; Dopamine; Striatum (Frechilla, D. (76) 306)

N-Methyl-D-aspartic acid
Corticotropin-releasing hormone; Hippocampus; Immobilization stress; In situ hybridization; MK-801 (Givalois, L. (75) 166)

MG-132, Ac-DEVD-CHO
NF-κB; IκB-α; Caspase-3; Proteasome; Apoptosis (Qin, Z.-H. (80) 111)

Microglia
Glutamate transporter; GLT-1; Astrocytes; Facial nerve axotomy; Facial nucleus; Rat (López-Redondo, F. (76) 429)

Lipopolysaccharide; NF-κB; Interleukin-6; Interleukin-10 (Heyen, J.R.R. (77) 138)

Gö6976; iNOS; PKC; Post-transcription; Glia; Lipopolysaccharide (Jeohn, G.-H. (79) 18)

Microtubule associated protein
Calcium; Epilepsy; Excitotoxicity; Kainic acid; Spectrin (Gary, D.S. (75) 89)

Middle cerebral artery occlusion
Aquaporin-4; Brain edema (Taniguchi, M. (78) 131)

MIF-1
Brain; Leech; Invertebrate; Osmoregulation (Salzet, M. (76) 161)

Mineralocorticoid receptor
Glucocorticoid receptor; Glucocorticoid negative feedback; mRNA; hnRNA; Strain effect; Individual difference (Paskitti, M.E. (80) 142)

Adrenalectomy; Corticosteroid receptor; Glucocorticoid; Hippocampus; Dorsal raphe nucleus; Serotonin receptor (Neumaier, J.F. (82) 65)

Mismatch base excision
Neuron; Aging; DNA polymerase-β; Primer extension (Rao, K.S. (85) 251)

Mitochondria
Glutaminase; cDNA; Baculovirus expression; Stroke (Holcomb, T. (76) 56)

Hydrogen peroxide; Respiration; Oxidative phosphorylation; Glutathione (Sims, N.R. (77) 176)

Apoptosis; Stress protein; Chaperonin; Chaperon (Okubo, A. (84) 127)

Mitochondrial membrane potential
Alzheimer's disease; Calcium; Caspase; Oxidative stress (Xie, J. (82) 107

Mitogen-activated kinase
p38 MAPK; Ischaemia; Oligodendrocytes (Irving, E.A. (77) 65)

MK-801
Corticotropin-releasing hormone; Hippocampus; Immobilization stress; In situ hybridization; *N*-Methyl-D-aspartic acid (Givalois, L. (75) 166)

Macaque; Ifenprodil; CGP39653; Receptor autoradiography; In situ hybridization (Ibrahim, H.M. (79) 1)

Müller cell
P2X receptor; ATP; Single-cell RT-PCR; Ligand-gated ion channel; Retina; Glia (Jabs, R. (76) 205)

CD44; *rds* mouse; Retina; Retinal degeneration (Krishnamoorthy, R. (77) 125)

Model of depression
Olfactory bulbectomy; Degeneration; Immediate early gene Jun; Serotonergic reinnervation; Plasticity; Amygdala (Wrynn, A.S. (76) 7)

Molecular cloning
Hyperpolarization-activated channel; I_h; Pacemaker activity; In situ hybridization; Rat (Monteggia, L.M. (81) 129)

Molecular evolution
μ Opioid receptor; Genomic structure; Anamniote vertebrate (Barrallo, A. (84) 1)

Molecular structure
Bony fish; Shaw-type channel; Electrophysiology; Proteinkinase C; Developmental expression (Panofen, F. (83) 9)

Monkey brain
γ-Hydroxybutyric acid; Quantitative autoradiography; Human brain; Receptor binding (Castelli, M.P. (78) 91)

Monoamine transporter
Cocaine self-administration; Gene expression; In situ hybridisation histochemistry; Enkephalin; Substance P (Arroyo, M. (83) 107)

Monoarthritis
Metabotropic glutamate receptors; Thalamus; Brainstem; Pain; In situ hybridisation (Lourenço Neto, F. (81) 140)

Monooxygenase
α-Amidating enzyme; *Aplysia californica*; Lyase (Fan, X. (82) 25)

Morphine
Drug abuse; Cocaine; NR4A1; NR4A2; NR4A3 (Werme, M. (76) 18)

Methadone; Endomorphin; Fentanyl; Opioid receptor (Chaturvedi, K. (76) 64)

Co-sensitization; MDMA; Cocaine; LSD; THC; c-*fos*; In situ hybridization (Erdtmann-Vourliotis, M. (77) 55

μ-Opioid receptor; Dopamine receptor; Knockout mice; Climbing behavior; Naloxone (Jang, C.-G. (78) 204)

Opioid; G protein; Untranslated region; Regulation; Expression (Zöllner, C. (79) 159)

Delta opioid receptor; MAP kinase; Receptor down regulation; Opioid peptide; G protein-coupled receptor (Chaturvedi, K. (80) 166)

Mouse
Calcitonin receptor; Serotonin transporter; In situ hybridization; Antinociception (Nakamoto, H. (76) 93)

Opioid growth factor receptor; Gene; cDNA; mRNA (Zagon, I.S. (84) 106)

Mouse models
Sensory loss/obesity syndromes; Tubby gene family; Immunohistochemistry; Subcellular localization (He, W. (81) 109)

mRNA
Transporter; Glutamate; GLT-1; GLAST; GAERS; Epilepsy (Ingram, E.M. (75) 96)

Ischemia; Caspase; Housekeeping genes (Harrison, D.C. (75) 143)

Brain; Scrapie; BSE; Prion (Dandoy-Dron, F. (76) 173)

NMDA receptor; Splice variant; Brain; Development; Lead (Guilarte, T.R. (76) 299)

Cysteine dioxygenase; Cysteine sulfinate decarboxylase; Aldose reductase; Salt-loading; Hyperosmolarity (Bitoun, M. (77) 10)

Glucocorticoid receptor; Mineralocorticoid receptor; Glucocorticoid negative feedback; hnRNA; Strain effect; Individual difference (Paskitti, M.E. (80) 142)

Opioid growth factor receptor; Mouse; Gene; cDNA (Zagon, I.S. (84) 106)

D1 mRNA
Dopamine receptor; D2 mRNA; Neuronal cell line; Ntera-2 cell (Sakolsky, D.J. (84) 158)

D2 mRNA
Dopamine receptor; D1 mRNA; Neuronal cell line; Ntera-2 cell (Sakolsky, D.J. (84) 158)

Dopamine receptor; D2 splice variant; $D2_{Longer}$; Psychosis (Seeman, P. (76) 132)

Dopamine receptor; D2 splice variant; $D2_{Longer}$; Psychosis (Liu, I.S.C. (77) 281)

mRNA transport
Extracellular matrix; Bergmann glia; In situ hybridization; Neural development (Mothe, A.J. (76) 73

Multimeric complex
Cytoskeletal protein; Phosphorylation; Proline-directed kinase (Veeranna, G.J. (76) 229)

Multiple peptide synthesis
Alzheimer; Tau protein; Anti-PHF-tau antibody; AD2 (Torreilles, F. (78) 181)

Muscarinic acetylcholine receptors
Sensory neurons; Nociception (Tata, A.M. (82) 1)

Mutagenesis
Arylalkylamine *N*-acetyltransferase; Melatonin; Enzyme stability; Pineal; Retina (Craft, C.M. (75) 198)

Uptake; Substrate-induced efflux; Rotating disk electrode voltammetry; Serine; Amphetamine (Chen, N. (75) 208)

Serotonin receptors; Signal transduction; Constitutive activity (Rosendorff, A. (84) 90)

Mutant
Pituitary adenylate cyclase-activating polypeptide; PACAP; PACAP type 1 receptor; PAC1; Knock-out; Learning; Memory (Sauvage, M. (84) 79)

Mutant mouse
Disabled 1; *Reelin*; L1 (Kojima, T. (75) 121)

N

N-myc
c-myc; Alzheimer disease; Huntington disease; Parkinson disease; Senile plaques; βA4-amyloid (Ferrer, I. (77) 270)

c-myc
N-myc; Alzheimer disease; Huntington disease; Parkinson disease; Senile plaques; βA4-amyloid (Ferrer, I. (77) 270)

Myelin
Myelin-associated glycoprotein; Phosphorylation; S100 protein; Protein kinase A (Kursula, P. (76) 407)

cDNA cloning; Lungfish; Proteolipid protein; DM20; Phylogenetic relation (Tohyama, Y. (80) 256)

Myelin-associated glycoprotein
Myelin; Phosphorylation; S100 protein; Protein kinase A (Kursula, P. (76) 407)

Naloxone
μ-Opioid receptor; Dopamine receptor; Knockout mice; Climbing behavior; Morphine (Jang, C.-G. (78) 204

NDRF (neuroD-related factor)
Neuronal differentiation; Gene structure; P19 cell; Basic helix–loop–helix transcription factor (Oda, H. (77) 37)

Nefiracetam
Anti-dementia drug; Nicotinic acetylcholine receptor; Protein kinase C; Glutamate release; Sustained facilitation; Hippocampal synaptic transmission (Nishizaki, T. (80) 53)

Neocortex
Amygdala; Immediate-early genes; Hippocampus (Malkani, S. (80) 153)

Nerve growth cone
Coxsackievirus and adenovirus receptor; Adhesion molecule; Subcellular localization; In situ hybridization (Honda, T. (77) 19)

Nerve growth factor
Neurite outgrowth; Fatty acid; PC12 cell differentiation (Allen, G.W. (76) 315)

Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Neuronal differentiation; PC12 cells; Promoter; Transfection (Lahiri, D.K. (77) 185)

Angiotensin II; AT_2 receptor; PC12W cells; Extracellular signal-regulated kinases (ERK), tyrosine phosphorylation (Stroth, U. (78) 175)

AP-1; Clenbuterol; L929 cells; 3T3 cells; Vitamin D receptor (Samina Riaz, S. (85) 179)

Nerve growth factor inducibility
Nitric oxide synthase; Gene expression; Signal transduction mechanism; Ets factor (Rife, T.K. (75) 225)

Neural cell adhesion molecule
Human optic nerve; Type 1B astrocyte; Reactive astrocyte; Lamina cribrosa; Glaucoma; Cell culture (Ricard, C.S. (81) 62)

Neural cell adhesion molecules
Glia; Lipopolysaccharide; Nitric oxide (Chang, R.C.C. (81) 197)

Neural crest
Neurite; Tetracycline-responsive transactivator; Lef-1/Tcf (Chou, A.H. (77) 232)

Neural development
Extracellular matrix; Bergmann glia; mRNA transport; In situ hybridization (Mothe, A.J. (76) 73)

Zic 1 gene expression; Spinal cord; Vestibulocochlear nucleus; Dorso-ventral axis (Aruga, J. (78) 15)

Neural differentiation
Ca^{2+}/calmodulin-dependent protein kinase II (CaM kinase II); P19 cell; Isoform; Alternative splicing; Brain development (Donai, H. (85) 189

Neural tube
Sox4; *Sox11*; Brain; *Sox4* null mutant (Cheung, M. (79) 180)

Neurite
Neural crest; Tetracycline-responsive transactivator; Lef-1/Tcf (Chou, A.H. (77) 232)

Neurite outgrowth
Cellular prion protein; Extracellular matrix; Hippocampal neuron; Laminin; PC-12 cell line (Graner, E. (76) 85)

Nerve growth factor; Fatty acid; PC12 cell differentiation (Allen, G.W. (76) 315)

IgLON; Retina; GPI-anchor; Cell–cell recognition (Lodge, A.P. (82) 84)

Neuro2a
Ire1α; ER stress; UPR; Alzheimer's disease (Miyoshi, K. (85) 68)

Neuroblastoma
Apoptosis; Differentiation; Tyrosine kinase; SH-SY5Y cells (Raghunath, M. (77) 151)

Neurodegeneration
Neurotrophic factor; Brain-derived neurotrophic factor; Human postmortem; Basal forebrain; Cholinergic (Holsinger, R.M.D. (76) 347)

Glutamate; Excitatory amino acid transporter; RNA; Cleavage; Polyadenylation (Münch, C. (80) 244)

Stroke; Neuronal receptor; Transcription; Splicing (Sun, H.B. (84) 146)

Neurofilament promoter
Long-term expression; Tyrosine hydroxylase promoter; Herpes simplex virus vector; Gene transfer (Zhang, G.-r. (84) 17)

Neurogenesis
PCNA; Cell cycle; Cell proliferation; Development (Ino, H. (78) 163)

Neuroimmunity
Antibacterial peptide; Opioid; Innate immunity (Tasiemski, A. (76) 237)

Neurologic disorder
PAHX-associated protein; Refsum disease; Yeast two-hybrid assay; In situ hybridization; Neuron-specific gene (Lee, Z.H. (75) 237)

Neuron
Aging; DNA polymerase-β; Primer extension; Mismatch base excision (Rao, K.S. (85) 251)

Neuronal apoptosis
Epilepsy; Limbic system; Rhinal cortex; Caspase-3; DNA fragmentation (Kondratyev, A. (75) 216)

Neuronal cell
c-Jun-N-terminal kinase; Cell death; TNFα; H_2O_2 (Mielke, K. (75) 128

Neuronal cell culture
Endoplasmic reticulum; Glucose regulated protein; Homocysteine toxicity; Hsp70; Stress response (Althausen, S. (84) 32)

Neuronal cell line
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Neuronal culture
Synaptogenesis; Glial cell; Cell contact; Tetrodotoxin; RNA expression (Lesuisse, C. (81) 92)

Neuronal differentiation
Gene structure; P19 cell; NDRF (neuroD-related factor); Basic helix–loop–helix transcription factor (Oda, H. (77) 37)

Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Nerve growth factor; PC12 cells; Promoter; Transfection (Lahiri, D.K. (77) 185)

P19 embryonal carcinoma cell; $p21^{waf1}$; $p27^{kip1}$; Retinoic acid; Antisense oligonucleotides (Sasaki, K. (77) 209)

Neuronal intermediate filaments
Intermediate filament; Transgenic tadpole; Gene expression; NF-M (Roosa, J.R. (82) 35)

Neuronal nicotinic receptor
Receptor assembly; Human adenovirus; α7 subunit; α4β2 receptor; Cell-specific assembly factor (Sweileh, W. (75) 293)

Neuronal nitric oxide synthase
Rat; Facial nerve; Axotomy; Post-synaptic density-95; Carboxy-terminal PDZ ligand of neuronal nitric oxide synthase; Synapse (Che, Y.H. (76) 325)

Cerebellum; In situ hybridization; Fish; Salmon (*Salmo salar*) (Øyan, A.M. (78) 38)

Neuronal paranode
Type II brain 4.1; Membrane skeleton; In situ hybridization; Immunohistochemistry; The protein 4.1 family (Ohara, R. (85) 41)

Neuronal PC12 cell
Inducible nitric oxide synthase; Argininosuccinate synthetase; Argininosuccinate lyase; Citrulline–NO cycle (Zhang, W.Y. (83) 1)

Neuronal plasticity
NMDA receptor; Visual development; Western blot; Critical period (Chen, L. (78) 196)

AP-1; DeltaFosB; Epilepsy; Status epilepticus; Serum response factor; Pilocarpine (Morris, T.A. (79) 138)

Traumatic brain injury; Fluid percussion; Chronic ethanol; Neurotrophin; Neurotrophin receptor; In situ hybridization (Zhang, L. (79) 174

Neuronal receptor
Stroke; Neurodegeneration; Transcription; Splicing (Sun, H.B. (84) 146)

Neuron-specific gene
PAHX-associated protein; Refsum disease; Yeast two-hybrid assay; In situ hybridization; Neurologic disorder (Lee, Z.H. (75) 237)

Neuropeptide Y
Cell-surface expression; Green fluorescence protein; Gene structure; Chromosomal localisation (Parker, R.M.C. (77) 199)

Stress; Hippocampus; Arcuate nucleus; Dentate gyrus (Conrad, C.D. (79) 102)

Neuroprotection
Interleukin; Tumor necrosis factor; Growth factor; Piriform; Prefrontal; Cortex; Hippocampus; Amygdala; Hypothalamus; Central nervous system (Plata-Salamán, C.R. (75) 248)

Neurotoxicity; Glia; Lipopolysaccharide; Endotoxin; Protein kinase C (Jeohn, G.-H. (79) 32)

Rat retina; NMDA; Apoptosis; AIP; Caspase-3 (Laabich, A. (85) 32)

Caspase-9; Rat retinal ganglion cells; Axotomy; Apoptosis (Kermer, P. (85) 144)

Neurospheres
Human neural stem cells; Transcriptional regulators (Palm, K. (78) 192)

Neurotoxicity
Glia; Lipopolysaccharide; Endotoxin; Neuroprotection; Protein kinase C (Jeohn, G.-H. (79) 32)

Alzheimer's disease; β-Amyloid; Hippocampus; Brain-derived neurotrophic factor (Tang, Ya.-P. (80) 188)

Okadaic acid; L-Glutamate; Cerebellar neuron; DNA fragmentation (Bezvenyuk, Z. (81) 191)

Neurotransmitter
AMPA; Receptor subunit; Splice variant; Visual pathway (Pires, R.S. (76) 341)

Neurotrophic factor
Neurotrophin; Diurnal; Corticosterone; Glucocorticoid (Schaaf, M.J.M. (75) 342)

Brain-derived neurotrophic factor; Human postmortem; Basal forebrain; Cholinergic; Neurodegeneration (Holsinger, R.M.D. (76) 347)

Neurotrophin
Neurotrophic factor; Diurnal; Corticosterone; Glucocorticoid (Schaaf, M.J.M. (75) 342)

Traumatic brain injury; Fluid percussion; Chronic ethanol; Neurotrophin receptor; In

situ hybridization; Neuronal plasticity (Zhang, L. (79) 174)

Cingulate cortex; Olfactory bulb; Basal forebrain; Horizontal limb; Estrogen receptor (Jezierski, M.K. (85) 77)

Withdrawal; In situ hybridisation; Acetylcholine; Drug dependence (Kenny, P.J. (85) 234)

Neurotrophin receptor
Traumatic brain injury; Fluid percussion; Chronic ethanol; Neurotrophin; In situ hybridization; Neuronal plasticity (Zhang, L. (79) 174)

Neurturin
Glial cell line-derived neurotrophic factor; Artemin; Persephin; *c-ret*; GFRα-1; GFRα-2; GFRα-3; Cochlea; RT–PCR (Stöver, T. (76) 25)

NFAT5
Quantitative PCR analysis; Differential splicing; SCA4 (Dalski, A. (83) 125)

NF-κB
Microglia; Lipopolysaccharide; Interleukin-6; Interleukin-10 (Heyen, J.R.R. (77) 138)

IκB-α; Caspase-3; Proteasome; MG-132, Ac-DEVD-CHO; Apoptosis (Qin, Z.-H. (80) 111)

NG108-15
Synapsin; Ca^{2+} imaging; FM1-43; Synaptic vesicle recycling; ATP release (Sugiyama, T. (85) 133)

NGFI-A
Immediate early genes; zif-268; egr-1; krox-24; Vocal learning (Whitney, O. (80) 279)

NGFI-A, c-*fos*, c-*jun*
Focal cerebrocortical lesion; Spreading depression; Noradrenaline; Injury/recovery, neuroprotection; In situ hybridization; Rat (Shen, P.-J. (83) 133)

Nicotine
Diazepam binding inhibitor; Voltage-dependent calcium channels; Ca^{2+}/calmodulin-dependent protein kinase; Cerebral cortical neurons (Katsura, M. (80) 132)

Nicotinic acetylcholine receptor
Alzheimer's disease; Western blot (Burghaus, L. (76) 385)

Nefiracetam; Anti-dementia drug; Protein kinase C; Glutamate release; Sustained facilitation; Hippocampal synaptic transmission (Nishizaki, T. (80) 53)

Nigrostriatal
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Nigrostriatal dopaminergic neurons
Apomorphine; Bromocriptine; Tyrosine hydroxylase; Feedback inhibition (Iwata, S.-i. (82) 133)

Nitric oxide
Rat; Endogenous morphine; Adrenal gland (Goumon, Y. (81) 177)

Glia; Lipopolysaccharide; Neural cell adhesion molecules (Chang, R.C.C. (81) 197)

Nitric oxide synthase
Gene expression; Nerve growth factor inducibility; Signal transduction mechanism; Ets factor (Rife, T.K. (75) 225)

μ Opioid receptor; β-Endorphin; Preoptic area; Rat (Bouret, S. (80) 46)

NMDA
Rat retina; CaMKII-α_B; CaMKII-α; Nucleus; Apoptosis (Laabich, A. (76) 253)

Cognitive deficits; LTP; Memory; Caloric restriction; Glutamate (Eckles-Smith, K. (78) 154)

Rat retina; Apoptosis; AIP; Neuroprotection; Caspase-3 (Laabich, A. (85) 32)

NMDAR1
nNOS; Alternative splicing; Knockout mice; In situ hybridization; Western blotting (Putzke, J. (85) 13)

NMDAR1 subunit
NMDA receptor; Alternative splicing; Human brain; Temporal lobe epilepsy (Musshoff, U. (76) 377)

NMDA receptor
mRNA; Splice variant; Brain; Development; Lead (Guilarte, T.R. (76) 299)

NMDAR1 subunit; Alternative splicing; Human brain; Temporal lobe epilepsy (Musshoff, U. (76) 377)

Neuronal plasticity; Visual development; Western blot; Critical period (Chen, L. (78) 196)

α-Actinin-2; Striatum; Glutamate receptor; Localization; Immunoprecipitation (Dunah, A.W. (79) 77)

nNOS
NMDAR1; Alternative splicing; Knockout mice; In situ hybridization; Western blotting (Putzke, J. (85) 13)

Nociceptin
Alternative splicing; Receptor; Opioid; Orphanin FQ; Genomic sequence (Xie, G.-x. (77) 1)

Nociception
Muscarinic acetylcholine receptors; Sensory neurons (Tata, A.M. (82) 1

Non-melanised neurons
Ventral tegmental area; Tyrosine hydroxylase mRNA; Parkinson's disease; In situ hybridization (Tong, Z.-Y. (79) 45)

Noradrenaline
Focal cerebrocortical lesion; Spreading depression; NGFI-A, *c-fos*, c-*jun*; Injury/recovery, neuroprotection; In situ hybridization; Rat (Shen, P.-J. (83) 133)

Noradrenergic phenotype
Tyrosine hydroxylase; Phox2a; Development; Plasticity; Transcription factor; Locus coeruleus (Bezin, L. (76) 275)

Norepinephrine transporter
Promoter; Cloning; Expression; cAMP (Padbury, J.F. (83) 128)

Aging; Alzheimer's disease; Locus coeruleus; Tyrosine hydroxylase; In situ; Locus coeruleus lesion (Szot, P. (84) 135)

NR4A1
Drug abuse; Cocaine; Morphine; NR4A2; NR4A3 (Werme, M. (76) 18)

NR4A2
Drug abuse; Cocaine; Morphine; NR4A1; NR4A3 (Werme, M. (76) 18)

NR4A3
Drug abuse; Cocaine; Morphine; NR4A1; NR4A2 (Werme, M. (76) 18)

Ntera-2 cell
Dopamine receptor; D1 mRNA; D2 mRNA; Neuronal cell line (Sakolsky, D.J. (84) 158)

Nuclear factor κB
Alzheimer's disease; AP-1; Apoptosis; Cerebral cortex; Stroke (Camandola, S. (85) 53)

Nuclear fragmentation
Caspase-independent; Primary culture (Hamabe, W. (78) 186)

Nuclear hormone receptor
Orphan receptor TR4; Brain development; Granule cells (Van Schaick, H.S.A. (77) 104)

Nucleus
Rat retina; CaMKII-α_B; CaMKII-α; NMDA; Apoptosis (Laabich, A. (76) 253)

Methamphetamine; Transcription factor; AP-1; CREB; Confocal laser scanning microscopy (Asanuma, M. (80) 237)

Nucleus paraventricularis of the hypothalamus
Dopamine D1 receptor; Immunohistochemistry; Western blot; Double labeling; pCREB (Czyrak, A. (85) 209)

Nucleus tractus solitarius
Chronic hypoxia; Dopamine D_2-receptor; Carotid body; Rat (Huey, K.A. (75) 264

Nurr1
Dopamine receptors; Substantia nigra (Tseng, K.Y. (80) 1)

Dopamine; Cholecystokinin; Dil; Substantia nigra; Ventral tegmental area (Witta, J. (84) 67)

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Obesity
Orexins/hypocretins; thiazolidinedione; Zucker fatty rats; Zucker diabetic fatty rats (Cai, X.J. (77) 131)

Odor stimulation
hVH-5 Gene; Entorhinal cortex lesion; In situ hybridization; MAPK phosphatase (Bernabeu, R. (75) 113)

Okadaic acid
L-Glutamate; Neurotoxicity; Cerebellar neuron; DNA fragmentation (Bezvenyuk, Z. (81) 191)

Olfactory bulb
Brain-derived neurotrophic factor; Granule cell; Apoptosis; Subventricular zone; Rostral migratory stream; Dentate gyrus (Linnarsson, S. (75) 61)

Cingulate cortex; Basal forebrain; Horizontal limb; Neurotrophin; Estrogen receptor (Jezierski, M.K. (85) 77)

Olfactory bulbectomy
Model of depression; Degeneration; Immediate early gene Jun; Serotonergic reinnervation; Plasticity; Amygdala (Wrynn, A.S. (76) 7)

Oligodendrocytes
Mitogen-activated kinase; p38 MAPK; Ischaemia (Irving, E.A. (77) 65)

Oligomerization
Gene transcription; Repressor; DNA binding; Deletion analysis; Glycosylation; Zinc finger (Lee, J.-H. (80) 88)

Oligomers
Dopamine D3 receptor; D3nf; Splice variant; Dimers (Elmhurst, J.L. (80) 63)

Oncostatin M
Glioma; Cytokines; Signal transduction; Jak-Stat; Growth inhibition (Halfter, H. (80) 198)

One-trial avoidance
Hippocampus; PKA; CREB; MAPK; Elk-1; Fos; Rat (Cammarota, M. (76) 36)

Oocyte
KCNQ2; Epilepsy; Potassium channel; Voltage-clamp; Genistein; Tyrosine phosphorylation (Jow, F. (80) 269

Opiate
Desensitization; Signal transduction; G-protein coupled receptor; Dynorphin; Enkephalin; Tolerance (Trapaidze, N. (76) 220)

Opioid
Antibacterial peptide; Innate immunity; Neuroimmunity (Tasiemski, A. (76) 237)

Analgesia; Pavlovian conditioning; Antisense (Foo, H. (76) 282)

Alternative splicing; Receptor; Nociceptin; Orphanin FQ; Genomic sequence (Xie, G.-x. (77) 1)

Morphine; G protein; Untranslated region; Regulation; Expression (Zöllner, C. (79) 159)

Opioid receptor; Ca^{2+}/calmodulin-dependent kinase II; Phosphorylation; Desensitization; Tolerance; Analgesia (Brüggemann, I. (85) 239)

Opioid growth factor receptor
Mouse; Gene; cDNA; mRNA (Zagon, I.S. (84) 106)

Opioid peptide
Delta opioid receptor; Morphine; MAP kinase; Receptor down regulation; G protein-coupled receptor (Chaturvedi, K. (80) 166)

Opioid receptor
Morphine; Methadone; Endomorphin; Fentanyl (Chaturvedi, K. (76) 64)

Knock-out mice; Autoradiography (Chen, H.-C. (76) 170)

Opioids; Ca^{2+}/calmodulin-dependent kinase II; Phosphorylation; Desensitization; Tolerance; Analgesia (Brüggemann, I. (85) 239)

μ-Opioid receptor
Dopamine receptor; Knockout mice; Climbing behavior; Morphine; Naloxone (Jang, C.-G. (78) 204)

Nitric oxide synthase; β-Endorphin; Preoptic area; Rat (Bouret, S. (80) 46)

Genomic structure; Anamniote vertebrate; Molecular evolution (Barrallo, A. (84) 1)

Optic nerve
$P2Y_1$ antiserum; Brain; Cerebellum; Submandibular gland; Corpus callosum (Morán-Jiménez, M.-J. (78) 50)

Rat; Hippocampus; Cerebral cortex; Cerebellum; Macroglia (Fogarty, D.J. (81) 164)

Orexin
Hypocretin; Orexin receptor; Pituitary; Immunohistochemistry; In situ hybridization (Date, Y. (76) 1)

Hypocretin; In situ hybridization histochemistry; Leptin; Orexin receptor; Postnatal development (Yamamoto, Y. (78) 108)

Orexin receptor
Orexin; Hypocretin; Pituitary; Immunohistochemistry; In situ hybridization (Date, Y. (76) 1)

Hypocretin; In situ hybridization histochemistry; Leptin; Orexin; Postnatal development (Yamamoto, Y. (78) 108)

Orexins/hypocretins
thiazolidinedione; Zucker fatty rats; Zucker diabetic fatty rats; Obesity (Cai, X.J. (77) 131)

Organ of Corti
Sox10; Inner ear; Cochlea; Supporting cell; Otic vesicle (Watanabe, K.-i. (84) 141)

Orphanin FQ
Alternative splicing; Receptor; Opioid; Nociceptin; Genomic sequence (Xie, G.-x. (77) 1)

Orphan nuclear receptor
Expression; In situ hybridization (Lorke, D.E. (77) 277)

Orphan receptor TR4
Nuclear hormone receptor; Brain development; Granule cells (Van Schaick, H.S.A. (77) 104)

Osmoregulation
MIF-1; Brain; Leech; Invertebrate (Salzet, M. (76) 161)

Otic vesicle
Sox10; Inner ear; Cochlea; Organ of Corti; Supporting cell (Watanabe, K.-i. (84) 141)

Otx2
Paired homeodomain proteins; Subcellular localization; Development; Retina; Cell fate (Baas, D. (78) 26)

Ovarian steroid
Estrogen receptor beta; Macaque; Brain; Hormone replacement therapy (Gundlah, C. (76) 191)

Oxidative phosphorylation
Mitochondria; Hydrogen peroxide; Respiration; Glutathione (Sims, N.R. (77) 176)

Oxidative stress
Alzheimer's disease; Calcium; Caspase; Mitochondrial membrane potential (Xie, J. (82) 107)

Thiol disulfide oxidoreductase; Thioltransferase; Brain; Glutathione; Human (Balijepalli, S. (85) 123

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P19 cell
Neuronal differentiation; Gene structure; NDRF (neuroD-related factor); Basic helix–loop–helix transcription factor (Oda, H. (77) 37)

Ca^{2+}/calmodulin-dependent protein kinase II (CaM kinase II); Isoform; Alternative splicing; Neural differentiation; Brain development (Donai, H. (85) 189)

P19 embryonal carcinoma cell
Neuronal differentiation; $p21^{waf1}$; $p27^{kip1}$; Retinoic acid; Antisense oligonucleotides (Sasaki, K. (77) 209)

p21
Apoptosis; Bax; Caspase; Cell cycle (Schmidt-Kastner, R. (79) 88)

$p21^{waf1}$
P19 embryonal carcinoma cell; Neuronal differentiation; $p27^{kip1}$; Retinoic acid; Antisense oligonucleotides (Sasaki, K. (77) 209)

$p27^{kip1}$
P19 embryonal carcinoma cell; Neuronal differentiation; $p21^{waf1}$; Retinoic acid; Antisense oligonucleotides (Sasaki, K. (77) 209)

P2X receptor
ATP; Single-cell RT-PCR; Ligand-gated ion channel; Retina; Müller cell; Glia (Jabs, R. (76) 205)

ATP; single-cell RT-PCR; Ligand-gated ion channel; Retina; Bipolar cell (H. Wheeler-Schilling, T. (76) 415)

$P2Y_1$ antiserum
Optic nerve; Brain; Cerebellum; Submandibular gland; Corpus callosum (Morán-Jiménez, M.-J. (78) 50)

p38 kinase
Extracellular signal regulated kinase; AP-1; c-fos; c-jun (Won, J.-S. (76) 396)

p38 MAPK
Mitogen-activated kinase; Ischaemia; Oligodendrocytes (Irving, E.A. (77) 65)

PAC1
Pituitary adenylate cyclase-activating polypeptide; PACAP; PACAP type 1 receptor; Mutant; Knock-out; Learning; Memory (Sauvage, M. (84) 79)

PACAP
PAC_1 receptor; Alternative splicing; G-protein-coupled receptor; Solution-phase RT-PCR; In situ RT-PCR (Zhou, C.J. (75) 150)

PACAP receptor type 1 (PAC_1); Progesterone; Antisense PAC_1 oligodeoxynucleotide; LHRH mRNA (Ha, C.M. (78) 59

PACAP receptor type 1 (PAC_1); Antisense PAC_1 oligodeoxynucleotide; Female puberty; LHRH (Choi, E.J. (80) 35)

Pituitary adenylate cyclase-activating polypeptide; PACAP type 1 receptor; PAC1; Mutant; Knock-out; Learning; Memory (Sauvage, M. (84) 79)

PACAP receptor type 1 (PAC_1)
PACAP; Progesterone; Antisense PAC_1 oligodeoxynucleotide; LHRH mRNA (Ha, C.M. (78) 59)

PACAP; Antisense PAC_1 oligodeoxynucleotide; Female puberty; LHRH (Choi, E.J. (80) 35)

PACAP type 1 receptor
Pituitary adenylate cyclase-activating polypeptide; PACAP; PAC1; Mutant; Knock-out; Learning; Memory (Sauvage, M. (84) 79)

Pacemaker activity
Hyperpolarization-activated channel; I_h; In situ hybridization; Molecular cloning; Rat (Monteggia, L.M. (81) 129)

PAC_1 receptor
PACAP; Alternative splicing; G-protein-coupled receptor; Solution-phase RT-PCR; In situ RT-PCR (Zhou, C.J. (75) 150)

PAHX-associated protein
Refsum disease; Yeast two-hybrid assay; In situ hybridization; Neuron-specific gene; Neurologic disorder (Lee, Z.H. (75) 237)

Pain
Metabotropic glutamate receptors; Thalamus; Brainstem; Monoarthritis; In situ hybridisation (Lourenço Neto, F. (81) 140)

Brain-derived neurotrophic factor; Capsaicin; Dorsal root ganglia; Immunohistochemistry; Reverse transcriptase-polymerase chain reactions; Spinal cord (Ha, S.-O. (81) 181)

Paired homeodomain proteins
Otx2; Subcellular localization; Development; Retina; Cell fate (Baas, D. (78) 26)

Parkin
Autosomal recessive juvenile parkinsonism; Rat; Distribution (D'Agata, V. (75) 345)

Parkinson's disease
N-myc; c-myc; Alzheimer disease; Huntington disease; Senile plaques; βA4-amyloid (Ferrer, I. (77) 270)

Ventral tegmental area; Tyrosine hydroxylase mRNA; In situ hybridization; Non-melanised neurons (Tong, Z.-Y. (79) 45)

6-Hydroxydopamine; Basal ganglia; *p*-Chloroamphetamine; Preprotachykinin; Preproenkephalin (Basura, G.J. (81) 80

PARP
Apoptosis; Cell death; LDH release; Cytotoxicity (Bursztajn, S. (76) 363)

Poly (ADP-ribose) polymerase; Gene expression; Ischemia; Stroke; Hippocampus; Apoptosis; DNA repair (Liu, J. (80) 7)

SH-SY5Y neuroblastoma; Staurosporine; H-7; Caspase; Apoptosis (López, E. (85) 61)

Pars reticulata
BDNF; Substantia nigra; 6-OH-DA; In situ hybridization; DA (Aliaga, E. (79) 150)

Parvocellular
Grid analysis; cDNA; Subtractive hybridization; Magnocellular; Visual cortex (Prasad, S.S. (82) 11)

Patch-clamp
RT-PCR; Acute cell isolation; Electrophysiologically complex glia (Zhou, M. (76) 121)

Pavlovian conditioning
Analgesia; Opioid; Antisense (Foo, H. (76) 282)

PC12 cell differentiation
Neurite outgrowth; Nerve growth factor; Fatty acid (Allen, G.W. (76) 315)

PC12 cells
Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Nerve growth factor; Neuronal differentiation; Promoter; Transfection (Lahiri, D.K. (77) 185)

PC12W cells
Angiotensin II; AT_2 receptor; Nerve growth factor (NGF); Extracellular signal-regulated kinases (ERK), tyrosine phosphorylation (Stroth, U. (78) 175)

PCNA
Cell cycle; Cell proliferation; Development; Neurogenesis (Ino, H. (78) 163)

RT-PCR
Meninges; Proinflammatory cytokine; IL-1β; LPS (Garabedian, B.V.-d. (75) 259)

Patch-clamp; Acute cell isolation; Electrophysiologically complex glia (Zhou, M. (76) 121)

Interleukin 18; AcPL; Binding protein; Hypothalamus (Wheeler, R.D. (77) 290)

Rat; IL-1β; Receptor; Hypothalamus (Parker, L.C. (79) 156)

pCREB
Nucleus paraventricularis of the hypothalamus; Dopamine D1 receptor; Immunohistochemistry; Western blot; Double labeling (Czyrak, A. (85) 209

Pentylenetetrazol
Brain-derived neurotrophic factor; Kainic acid; Gene regulation; Hippocampus; Barrel cortex; Somatosensory cortex (Nanda, S.A. (78) 1)

***Period* gene**
Circadian rhythms; Retina; Pigment epithelium; *Xenopus* (Zhuang, M. (82) 52)

Periplasmic binding proteins
G-protein coupled receptor; Leucine-isoleucine-valine binding protein; $GABA_B$ receptor; Calcium-sensing receptor (Peltekova, V. (76) 180)

Persephin
Glial cell line-derived neurotrophic factor; Neurturin; Artemin; *c-ret*; GFRα-1; GFRα-2; GFRα-3; Cochlea; RT–PCR (Stöver, T. (76) 25)

Pertussis toxin
Lysophospatidic acid (LPA); Substance P (SP); Histamine; Diphenhydramine (DPH); Polymodal nociceptor; Dorsal root ganglion (DRG) (Renbäck, K. (75) 350)

Edg-1; Edg-5; Fibroblast growth factor 2; GTP binding protein; Sphingosine 1-phosphate (Sato, K. (85) 151)

Phase dependency
Activating protein 1; Electrophoretic mobility shift assay; Photic regulation; Immunocytochemistry; In situ hybridization; Suprachiasmatic nucleus (François-Bellan, A.M. (85) 161)

Phosphatidyl inositol pathway
Xenopus oocyte; Amyloid peptide; Aggregation; Receptor; Rat brain RNA (Blitzer, R.D. (76) 115)

6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase
Brain glycolysis; Gene expression (Goren, N. (75) 138)

Phosphofructokinase isoenzyme
Phosphofructokinase mRNA; Alzheimer's disease; Ribonuclease protection assay; Quantitative PCR (Bigl, M. (76) 411)

Phosphofructokinase mRNA
Phosphofructokinase isoenzyme; Alzheimer's disease; Ribonuclease protection assay; Quantitative PCR (Bigl, M. (76) 411)

Phosphorylation
Cytoskeletal protein; Proline-directed kinase; Multimeric complex (Veeranna, G.J. (76) 229)

Myelin; Myelin-associated glycoprotein; S100 protein; Protein kinase A (Kursula, P. (76) 407)

Tyrosine; G protein; Internalization; Src; Immunoprecipitation (Kramer, H.K. (79) 55)

Isoforms; Calmodulin (GuptaRoy, B. (80) 26

$5\text{-}HT_1$ receptor; Splice variant; Desensitization; Whole-cell patch-clamp; Down-regulation (Hubbard, P.C. (81) 101)

Ca^{2+}/calmodulin-dependent protein kinase II; Postsynaptic density; Translocation; Two-dimensional gel electrophoresis (Yoshimura, Y. (81) 118)

Opioids; Opioid receptor; Ca^{2+}/calmodulin-dependent kinase II; Desensitization; Tolerance; Analgesia (Brüggemann, I. (85) 239)

Photic regulation
Activating protein 1; Electrophoretic mobility shift assay; Phase dependency; Immunocytochemistry; In situ hybridization; Suprachiasmatic nucleus (François-Bellan, A.M. (85) 161)

Photoreceptor
Circadian; *Clock* gene; bHLH-PAS; Retina; *Xenopus* (Zhu, H. (75) 303)

Retina; Fovea; Cone photoreceptor; Protein tyrosine phosphatase; PRL-1 (Yarovinsky, T.O. (77) 95)

CaMKII; Retina; Synaptic plasticity; CPEB (Liu, L.O. (82) 150)

Phox2a
Tyrosine hydroxylase; Noradrenergic phenotype; Development; Plasticity; Transcription factor; Locus coeruleus (Bezin, L. (76) 275)

Phylogenetic relation
cDNA cloning; Lungfish; Myelin; Proteolipid protein; DM20 (Tohyama, Y. (80) 256)

Picrotoxin
Recombinant $GABA_A$ receptor; Convulsant; Cl^- channel (Bell-Horner, C.L. (76) 47)

Pigment epithelium
Circadian rhythms; *Period* gene; Retina; *Xenopus* (Zhuang, M. (82) 52)

Pilocarpine
AP-1; DeltaFosB; Epilepsy; Status epilepticus; Neuronal plasticity; Serum response factor (Morris, T.A. (79) 138)

Pineal
Arylalkylamine *N*-acetyltransferase; Melatonin; Enzyme stability; Retina; Mutagenesis (Craft, C.M. (75) 198)

Atrial natriuretic peptide; C-type natriuretic peptide; Cyclic GMP; Guanylyl cyclase-B (Müller, D. (75) 321)

Circadian rhythm; Clock gene; Japanese quail; Eye; Entrainment (Yoshimura, T. (78) 207)

Piriform
Interleukin; Tumor necrosis factor; Growth factor; Prefrontal; Cortex; Hippocampus; Amygdala; Hypothalamus; Neuroprotection; Central nervous system (Plata-Salamán, C.R. (75) 248)

Pituitary
Proopiomelanocortin; Prohormone convertase; Granin; Development; *Xenopus laevis* (Holling, T.M. (75) 70)

Orexin; Hypocretin; Orexin receptor; Immunohistochemistry; In situ hybridization (Date, Y. (76) 1)

Pituitary adenylate cyclase activating peptide
CRE site; Human neuroblastoma cells; Transcription; Vasoactive intenstinal polypeptide gene expression (Georg, B. (79) 67)

Pituitary adenylate cyclase-activating polypeptide
PACAP; PACAP type 1 receptor; PAC1; Mutant; Knock-out; Learning; Memory (Sauvage, M. (84) 79)

PKA
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PKC
Gö6976; iNOS; Microglia; Post-transcription; Glia; Lipopolysaccharide (Jeohn, G.-H. (79) 18)

Plasticity
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Olfactory bulbectomy; Model of depression; Degeneration; Immediate early gene Jun; Serotonergic reinnervation; Amygdala (Wrynn, A.S. (76) 7)

Tyrosine hydroxylase; Phox2a; Noradrenergic phenotype; Development; Transcription factor; Locus coeruleus (Bezin, L. (76) 275)

Polyadenylation
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Poly (ADP-ribose) polymerase
PARP; Gene expression; Ischemia; Stroke; Hippocampus; Apoptosis; DNA repair (Liu, J. (80) 7)

Polymodal nociceptor
Lysophospatidic acid (LPA); Substance P (SP); Histamine; Diphenhydramine (DPH); Pertussis toxin (PTX); Dorsal root ganglion (DRG) (Renbäck, K. (75) 350)

Polyubiquitin gene
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Post-mortem delay
Protein stability; Glutamate receptor; Immunoblot; Human brain; Alzheimer's disease (Wang, Y. (80) 123)

Postnatal development
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Post-synaptic density
CaM-kinase phosphatase; CaM-kinases; Protein phosphatase; Striatal cholinergic neuron; Immunohistochemistry (Nakamura, Y. (77) 76)

Ca^{2+}/calmodulin-dependent protein kinase II; Phosphorylation; Translocation; Two-dimensional gel electrophoresis (Yoshimura, Y. (81) 118)

Post-synaptic density-95
Rat; Facial nerve; Axotomy; Carboxy-terminal PDZ ligand of neuronal nitric oxide synthase; Neuronal nitric oxide synthase; Synapse (Che, Y.H. (76) 325)

Post-transcription
Gö6976; iNOS; PKC; Microglia; Glia; Lipopolysaccharide (Jeohn, G.-H. (79) 18)

Potassium channel
Baseline conductance; Immunohistochemistry; Expression; Colocalization; Glial fibrillary acid protein; Central nervous system (Kindler, C.H. (80) 99)

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Tandem pore domain; Degenerate PCR; Cerebellum; Human; Taqman mRNA analysis (Chapman, C.G. (82) 74)

Prefrontal
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Preoptic area
Nitric oxide synthase; μ Opioid receptor; β-Endorphin; Rat (Bouret, S. (80) 46)

Preproenkephalin
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Preprotachykinin
6-Hydroxydopamine; Basal ganglia; *p*-Chloroamphetamine; Preproenkephalin; Parkinson's disease (Basura, G.J. (81) 80)

Presenilin
Alzheimer's disease; Hippocampus; Cerebellum; Gene expression (McMillan, P.J. (78) 138

Alzheimer's disease; β-Amyloid; Transgenic mouse; c-Jun; JNK (Shoji, M. (85) 221)

Presenilin 1
Alzheimer's disease; Syntaxin; Thioredoxin (Smith, S.K.F. (78) 100)

Alzheimer's disease; Alternative splicing; γ-Secretase activity; Endoproteolysis; Amyloid β (Morihara, T. (85) 85)

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PRL-1
Retina; Fovea; Photoreceptor; Cone photoreceptor; Protein tyrosine phosphatase (Yarovinsky, T.O. (77) 95)

Proenkephalin
Astrocyte; AP-1; CREB; Protein kinase A; Protein kinase C (Won, J.-S. (84) 41)

Progenitor cell
Hippocampus; Retinoic acid; Proliferation; RARγ (Chung, J.-J. (83) 52)

Progesterone
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Prohormone convertase
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Proinflammatory cytokine
Meninges; IL-1β; LPS; RT-PCR (Garabedian, B.V.-d. (75) 259)

Proliferation
Hippocampus; Progenitor cell; Retinoic acid; RARγ (Chung, J.-J. (83) 52)

Proline-directed kinase
Cytoskeletal protein; Phosphorylation; Multimeric complex (Veeranna, G.J. (76) 229)

Promoter
Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Nerve growth factor; Neuronal differentiation; PC12 cells; Transfection (Lahiri, D.K. (77) 185)

Sec6; Exocyst; Gene expression; Transcription (Chin, L.-S. (79) 127)

Sodium channels; Transcriptional regulation (Schade, S.D. (81) 187

Norepinephrine transporter; Cloning; Expression; cAMP (Padbury, J.F. (83) 128)

Promoter regulation
GDNF; 5′-Untranslated region; Glial cell line; Core promoter (Tanaka, M. (85) 91)

Proopiomelanocortin
Prohormone convertase; Granin; Pituitary; Development; *Xenopus laevis* (Holling, T.M. (75) 70)

Pro-opiomelanocortin
Arcuate nucleus; Feeding; Lateral hypothalamic area (Johansen, J.E. (84) 97)

Proteasome
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20S proteasome
26S proteasome; Bovine brain (Piccinini, M. (76) 103)

26S proteasome
20S proteasome; Bovine brain (Piccinini, M. (76) 103)

G protein
Tyrosine; Phosphorylation; Internalization; Src; Immunoprecipitation (Kramer, H.K. (79) 55)

Opioid; Morphine; Untranslated region; Regulation; Expression (Zöllner, C. (79) 159)

G-protein-coupled receptor
PACAP; PAC_1 receptor; Alternative splicing; Solution-phase RT-PCR; In situ RT-PCR (Zhou, C.J. (75) 150)

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Desensitization; Signal transduction; Dynorphin; Enkephalin; Opiate; Tolerance (Trapaidze, N. (76) 220)

Delta opioid receptor; Morphine; MAP kinase; Receptor down regulation; Opioid peptide (Chaturvedi, K. (80) 166)

Protein kinase A
Myelin; Myelin-associated glycoprotein; Phosphorylation; S100 protein (Kursula, P. (76) 407)

Acetylcholine; Brain; Fluorescent cyclic nucleotides (Mucignat-Caretta, C. (80) 233)

Proenkephalin; Astrocyte; AP-1; CREB; Protein kinase C (Won, J.-S. (84) 41)

Protein kinase C
EGF; Two-hybrid system; EM; Immunocytochemistry (Oyasu, M. (76) 151)

Neurotoxicity; Glia; Lipopolysaccharide;

Endotoxin; Neuroprotection (Jeohn, G.-H. (79) 32)

Nefiracetam; Anti-dementia drug; Nicotinic acetylcholine receptor; Glutamate release; Sustained facilitation; Hippocampal synaptic transmission (Nishizaki, T. (80) 53)

Bony fish; Shaw-type channel; Molecular structure; Electrophysiology; Developmental expression (Panofen, F. (83) 9)

Proenkephalin; Astrocyte; AP-1; CREB; Protein kinase A (Won, J.-S. (84) 41)

Protein kinase C phosphorylation
$GABA_A$ receptor γ3 subunit variant; Genomic structure; Alternative splicing (Poulsen, C.F. (78) 201)

Protein phosphatase
CaM-kinase phosphatase; CaM-kinases; Post synaptic density; Striatal cholinergic neuron; Immunohistochemistry (Nakamura, Y. (77) 76)

Protein stability
Post-mortem delay; Glutamate receptor; Immunoblot; Human brain; Alzheimer's disease (Wang, Y. (80) 123)

Protein tyrosine phosphatase
Retina; Fovea; Photoreceptor; Cone photoreceptor; PRL-1 (Yarovinsky, T.O. (77) 95)

Proteolipid protein
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PSD
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Psychiatric disorders
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Psychosis
Dopamine receptor; D2 splice variant; D2 mRNA; $D2_{Longer}$ (Seeman, P. (76) 132)

Dopamine receptor; D2 splice variant; D2 mRNA; $D2_{Longer}$ (Liu, I.S.C. (77) 281)

Schizophrenia; Dopamine release; Kinase; Calcium-calmodulin-dependent protein kinase IIβ; Chromosome 7; Antipsychotic drug; Frontal cortex; Caudate nucleus; Putamen (Novak, G. (82) 95)

Pterin-4α-carbinolamine dehydratase
Rat brain; Catecholamine; Tetrahydrobiopterin; Immunohistochemistry; Tyrosine hydroxylase (Depaepe, V. (75) 76)

Purα
Single-stranded DNA binding protein; Forskolin; CRE (Sadakata, T. (77) 47

Purkinje cell
Inferior olive; Deep cerebellar nuclei; $GABA_A$; Corticotropin releasing factor; In situ hybridization (Frostholm, A. (85) 200)

Putamen
Schizophrenia; Dopamine release; Psychosis; Kinase; Calcium-calmodulin-dependent protein kinase IIβ; Chromosome 7; Antipsychotic drug; Frontal cortex; Caudate nucleus (Novak, G. (82) 95)

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Quantitative autoradiography
γ-Hydroxybutyric acid; Human brain; Monkey brain; Receptor binding (Castelli, M.P. (78) 91)

Quantitative in situ hybridization
Chronic ethanol treatment; Withdrawal; Rat brain; Gene expression; Calmodulin mRNAs (Vizi, S. (83) 63)

Quantitative PCR
Phosphofructokinase mRNA; Phosphofructokinase isoenzyme; Alzheimer's disease; Ribonuclease protection assay (Bigl, M. (76) 411)

Small conductance calcium-activated potassium channel; SK channel; Expression; Human brain (Rimini, R. (85) 218)

Quantitative PCR analysis
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RARγ
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Rat
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Chronic hypoxia; Dopamine D_2-receptor; Nucleus tractus solitarius; Carotid body (Huey, K.A. (75) 264)

Autosomal recessive juvenile parkinsonism; Parkin; Distribution (D'Agata, V. (75) 345)

Hippocampus; PKA; CREB; MAPK; Elk-1; Fos; One-trial avoidance (Cammarota, M. (76) 36)

Brain; Electroconvulsive shock; Glutathione peroxidase; Seizure; Superoxide dismutase (Eraković, V. (76) 266)

Facial nerve; Axotomy; Post-synaptic density-95; Carboxy-terminal PDZ ligand of neuronal nitric oxide synthase; Neuronal nitric oxide synthase; Synapse (Che, Y.H. (76) 325)

Glutamate transporter; GLT-1; Microglia; Astrocytes; Facial nerve axotomy; Facial nucleus (López-Redondo, F. (76) 429)

Endogenous morphine; Adrenal gland (Goumon, Y. (77) 267)

IL-1β; Receptor; Hypothalamus; RT-PCR (Parker, L.C. (79) 156)

Nitric oxide synthase; μ Opioid receptor; β-Endorphin; Preoptic area (Bouret, S. (80) 46)

Hyperpolarization-activated channel; I_h; Pacemaker activity; In situ hybridization; Molecular cloning (Monteggia, L.M. (81) 129)

Hippocampus; Cerebral cortex; Cerebellum; Macroglia; Optic nerve (Fogarty, D.J. (81) 164)

Endogenous morphine; Adrenal gland; Nitric oxide (Goumon, Y. (81) 177)

Brain-specific phosphate cotransporter; DNPI; Gene expression; In situ hybridization histochemistry (Hisano, S. (83) 34)

Focal cerebrocortical lesion; Spreading depression; NGFI-A, c-*fos*, c-*jun*; Noradrenaline; Injury/recovery, neuroprotection; In situ hybridization (Shen, P.-J. (83) 133)

Cerebral ischemia; FKBP12; Immunophilin; Calcium; Immunohistochemistry (Kato, H. (84) 58)

Rat brain
Pterin-4α-carbinolamine dehydratase; Catecholamine; Tetrahydrobiopterin; Immunohistochemistry; Tyrosine hydroxylase (Depaepe, V. (75) 76)

Aging; Metabotropic glutamate receptor 4; Metabotropic glutamate receptor 7; In situ hybridization (Simonyi, A. (82) 101)

Chronic ethanol treatment; Withdrawal; Gene expression; Calmodulin mRNAs; Quantitative in situ hybridization (Vizi, S. (83) 63)

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Xenopus oocyte; Amyloid peptide; Aggregation; Receptor; Phosphatidyl inositol pathway (Blitzer, R.D. (76) 115)

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NMDA; Apoptosis; AIP; Neuroprotection; Caspase-3 (Laabich, A. (85) 32

Rat retinal ganglion cells
Caspase-9; Axotomy; Apoptosis; Neuroprotection (Kermer, P. (85) 144)

RC3/neurogranin
Thyroid hormone; Brain development; Cerebral cortex (Dowling, A.L.S. (82) 126)

rds mouse
CD44; Müller cells; Retina; Retinal degeneration (Krishnamoorthy, R. (77) 125)

Reactive astrocyte
Neural cell adhesion molecule; Human optic nerve; Type 1B astrocyte; Lamina cribrosa; Glaucoma; Cell culture (Ricard, C.S. (81) 62)

α4β2 receptor
Neuronal nicotinic receptor; Receptor assembly; Human adenovirus; α7 subunit; Cell-specific assembly factor (Sweileh, W. (75) 293)

Receptor
Xenopus oocyte; Amyloid peptide; Aggregation; Phosphatidyl inositol pathway; Rat brain RNA (Blitzer, R.D. (76) 115)

Alternative splicing; Opioid; Nociceptin; Orphanin FQ; Genomic sequence (Xie, G.-x. (77) 1)

Rat; IL-1β; Hypothalamus; RT-PCR (Parker, L.C. (79) 156)

$GABA_B$; Distribution; Electron microscopy; Antibody (Ige, A.O. (83) 72)

Brain; Histamine; Splicing variants (Liu, C. (83) 145)

Dopamine; Cocaine; Nigrostriatal; Cortex; Development (Halladay, A.K. (85) 171)

D-5 receptor
Acetylcholine; Dopamine; Hippocampus; In vivo dialysis; Antisense (Hersi, A.I. (76) 336)

Receptor-activity-modifying protein
Adrenomedullin; Cerebral microvessel; cAMP; CGRP; Calcitonin-receptor-like receptor (Kobayashi, H. (81) 1)

Receptor assembly
Neuronal nicotinic receptor; Human adenovirus; α7 subunit; α4β2 receptor; Cell-specific assembly factor (Sweileh, W. (75) 293)

Receptor autoradiography
Macaque; Ifenprodil; MK-801; CGP39653; In situ hybridization (Ibrahim, H.M. (79) 1)

Receptor binding
γ-Hydroxybutyric acid; Quantitative autoradiography; Human brain; Monkey brain (Castelli, M.P. (78) 91)

Receptor down regulation
Delta opioid receptor; Morphine; MAP kinase; Opioid peptide; G protein-coupled receptor (Chaturvedi, K. (80) 166

Receptor subunit
AMPA; Neurotransmitter; Splice variant; Visual pathway (Pires, R.S. (76) 341)

Recombinant $GABA_A$ receptor
Convulsant; Cl^- channel; Picrotoxin (Bell-Horner, C.L. (76) 47)

Reelin
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Refsum disease
PAHX-associated protein; Yeast two-hybrid assay; In situ hybridization; Neuron-specific gene; Neurologic disorder (Lee, Z.H. (75) 237)

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Regulation
Opioid; Morphine; G protein; Untranslated region; Expression (Zöllner, C. (79) 159)

REM sleep
Immediate early genes; Transcription factors; Gene knockout mice; Sleep; Circadian rhythm (Shiromani, P.J. (80) 75)

Repressor
Gene transcription; DNA binding; Deletion analysis; Oligomerization; Glycosylation; Zinc finger (Lee, J.-H. (80) 88)

Respiration
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c-ret
Glial cell line-derived neurotrophic factor; Neurturin; Artemin; Persephin; GFRα-1; GFRα-2; GFRα-3; Cochlea; RT–PCR (Stöver, T. (76) 25)

Retina
Arylalkylamine *N*-acetyltransferase; Melatonin; Enzyme stability; Pineal; Mutagenesis (Craft, C.M. (75) 198)

Circadian; *Clock* gene; bHLH-PAS; Photoreceptor; *Xenopus* (Zhu, H. (75) 303)

P2X receptor; ATP; Single-cell RT-PCR; Ligand-gated ion channel; Müller cell; Glia (Jabs, R. (76) 205)

P2X receptor; ATP; single-cell RT-PCR; Ligand-gated ion channel; Bipolar cell (H. Wheeler-Schilling, T. (76) 415)

Fovea; Photoreceptor; Cone photoreceptor; Protein tyrosine phosphatase; PRL-1 (Yanovinsky, T.O. (77) 95)

CD44; Müller cells; *rds* mouse; Retinal degeneration (Krishnamoorthy, R. (77) 125

Otx2; Paired homeodomain proteins; Subcellular localization; Development; Cell fate (Baas, D. (78) 26)

E box; Circadian; Clock; Arylalkylamine *N*-Acetyltransferase (Chen, W. (81) 43)

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IgLON; GPI-anchor; Cell–cell recognition; Neurite outgrowth (Lodge, A.P. (82) 84)

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Retinal degeneration
CD44; Müller cells; *rds* mouse; Retina (Krishnamoorthy, R. (77) 125)

Retinoic acid
P19 embryonal carcinoma cell; Neuronal differentiation; $p21^{waf1}$; $p27^{kip1}$; Antisense oligonucleotides (Sasaki, K. (77) 209)

Hippocampus; Progenitor cell; Proliferation; RARγ (Chung, J.-J. (83) 52)

Reverse transcriptase-polymerase chain reactions
Brain-derived neurotrophic factor; Capsaicin; Dorsal root ganglia; Immunohistochemistry; Pain; Spinal cord (Ha, S.-O. (81) 181)

Rhinal cortex
Epilepsy; Limbic system; Caspase-3; Neuronal apoptosis; DNA fragmentation (Kondratyev, A. (75) 216)

Ribonuclease protection assay
Phosphofructokinase mRNA; Phosphofructokinase isoenzyme; Alzheimer's disease; Quantitative PCR (Bigl, M. (76) 411)

RNA
Glutamate; Excitatory amino acid transporter; Cleavage; Polyadenylation; Neurodegeneration (Münch, C. (80) 244)

RNA-binding protein
Dendritic RNA targeting; Extrasomatic localization and translation; UV-crosslinking assay (Rehbein, M. (79) 192)

RNA expression
Neuronal culture; Synaptogenesis; Glial cell; Cell contact; Tetrodotoxin (Lesuisse, C. (81) 92)

Rolipram
Dunce homolog; Learning (Thompson, B.E. (83) 94)

Rostral migratory stream
Brain-derived neurotrophic factor; Granule cell; Apoptosis; Subventricular zone; Olfactory bulb; Dentate gyrus (Linnarsson, S. (75) 61

Rotating disk electrode voltammetry
Uptake; Substrate-induced efflux; Mutagenesis; Serine; Amphetamine (Chen, N. (75) 208)

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Glial cell line-derived neurotrophic factor; Neurturin; Artemin; Persephin; *c-ret*; GFRα-1; GFRα-2; GFRα-3; Cochlea (Stöver, T. (76) 25)

Ryanodine receptor
Fear conditioning; Ca^{2+}/calmodulin-dependent protein kinase II; Hippocampus; Knockout mouse; Memory (Kouzu, Y. (76) 142)

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S100 protein
Myelin; Myelin-associated glycoprotein; Phosphorylation; Protein kinase A (Kursula, P. (76) 407)

Salmon (*Salmo salar*)
Neuronal nitric oxide synthase; Cerebellum; In situ hybridization; Fish (Øyan, A.M. (78) 38)

Salt-loading
Cysteine dioxygenase; Cysteine sulfinate decarboxylase; Aldose reductase; mRNA; Hyperosmolarity (Bitoun, M. (77) 10)

SCA4
NFAT5; Quantitative PCR analysis; Differential splicing (Dalski, A. (83) 125)

Schizophrenia
Dopamine release; Psychosis; Kinase; Calcium-calmodulin-dependent protein kinase IIβ; Chromosome 7; Antipsychotic drug; Frontal cortex; Caudate nucleus; Putamen (Novak, G. (82) 95)

Glutamate; Metabotropic glutamate receptor; Excitatory amino acid transporter; Hippocampus; In situ hybridization (Ohnuma, T. (85) 24)

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Connexin-32; Junctional conductance; Luciferase assay (Wang, H.-L. (78) 146)

Scrapie
mRNA; Brain; BSE; Prion (Dandoy-Dron, F. (76) 173)

Sec6
Exocyst; Gene expression; Promoter; Transcription (Chin, L.-S. (79) 127)

γ-Secretase activity
Alzheimer's disease; Presenilin 1; Alternative splicing; Endoproteolysis; Amyloid β (Morihara, T. (85) 85

Seizure
Brain; Electroconvulsive shock; Glutathione peroxidase; Rat; Superoxide dismutase (Eraković, V. (76) 266)

Fragile X syndrome; Fragile X mental retardation protein; Experience dependent plasticity; Kainic acid; Calcineurin (Todd, P.K. (80) 17)

Cytokine; Dizocilpine maleate; Glutamate receptor; In situ hybridization histochemistry; (*R*)-CPP (Eriksson, C. (85) 103)

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Substantia nigra; Striatum; Tyrosine hydroxylase; Dopamine transporter; Glutathione peroxidase (Romero-Ramos, M. (84) 7)

Sema3A
Apoptosis; Dopamine; Sympathetic neuron (Shirvan, A. (83) 81)

Senile plaques
N-myc; c-myc; Alzheimer disease; Huntington disease; Parkinson disease; βA4-amyloid (Ferrer, I. (77) 270)

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Morphine; MDMA; Cocaine; LSD; THC; *c-fos*; In situ hybridization (Erdtmann-Vourliotis, M. (77) 55)

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Sensory loss/obesity syndromes
Mouse models; Tubby gene family; Immunohistochemistry; Subcellular localization (He, W. (81) 109)

Sensory neurons
Muscarinic acetylcholine receptors; Nociception (Tata, A.M. (82) 1)

Serine
Uptake; Substrate-induced efflux; Rotating disk electrode voltammetry; Mutagenesis; Amphetamine (Chen, N. (75) 208)

Serotonergic reinnervation
Olfactory bulbectomy; Model of depression; Degeneration; Immediate early gene Jun; Plasticity; Amygdala (Wrynn, A.S. (76) 7)

Serotonin
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Ubiquitin; *Aplysia* neuron; Long-term facilitation; Polyubiquitin gene (Hegde, A.N. (76) 424)

Food intake; Leptin receptor; Brainstem; Hypothalamus (Collin, M. (81) 51

Serotonin receptor
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SHIP
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SHSY5Y
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Serotonin receptors; Mutagenesis; Constitutive activity (Rosendorff, A. (84) 90)

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Nitric oxide synthase; Gene expression; Nerve growth factor inducibility; Ets factor (Rife, T.K. (75) 225)

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Calcium channel; Absence epilepsy; Thalamus (Talley, E.M. (75) 159)

Corticotropin-releasing hormone; Hippocampus; Immobilization stress; MK-801; *N*-Methyl-D-aspartic acid (Givalois, L. (75) 166)

PAHX-associated protein; Refsum disease; Yeast two-hybrid assay; Neuron-specific gene; Neurologic disorder (Lee, Z.H. (75) 237)

Luteinizing hormone-releasing hormone; LHRH; Immunohistochemistry (Latimer, V.S. (75) 287)

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Orexin; Hypocretin; Orexin receptor; Pituitary; Immunohistochemistry (Date, Y. (76) 1)

Extracellular matrix; Bergmann glia; mRNA transport; Neural development (Mothe, A.J. (76) 73)

Calcitonin receptor; Serotonin transporter; Antinociception; Mouse (Nakamoto, H. (76) 93)

Coxsackievirus and adenovirus receptor; Nerve growth cone; Adhesion molecule; Subcellular localization (Honda, T. (77) 19)

Co-sensitization; Morphine; MDMA; Cocaine; LSD; THC; c-*fos* (Erdtmann-Vourliotis, M. (77) 55)

Auditory brain stem; Excitatory amino acid; Glutamate; Deafness (Nakagawa, H. (77) 246)

Orphan nuclear receptor; Expression (Lorke, D.E. (77) 277)

Neuronal nitric oxide synthase; Cerebellum; Fish; Salmon (*Salmo salar*) (Øyan, A.M. (78) 38)

Macaque; Ifenprodil; MK-801; CGP39653; Receptor autoradiography (Ibrahim, H.M. (79) 1)

Ventral tegmental area; Tyrosine hydroxylase mRNA; Parkinson's disease; Non-melanised neurons (Tong, Z.-Y. (79) 45)

BDNF; Substantia nigra; Pars reticulata; 6-OH-DA; DA (Aliaga, E. (79) 150

Traumatic brain injury; Fluid percussion; Chronic ethanol; Neurotrophin; Neurotrophin receptor; Neuronal plasticity (Zhang, L. (79) 174)

Hyperpolarization-activated channel; I_h; Pacemaker activity; Molecular cloning; Rat (Monteggia, L.M. (81) 129)

Metabotropic glutamate receptors; Thalamus; Brainstem; Monoarthritis; Pain (Lourenço Neto, F. (81) 140)

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Cochlea; Hair cell; KCNQ4; Expression pattern (Beisel, K.W. (82) 137)

Focal cerebrocortical lesion; Spreading depression; NGFI-A, c-*fos*, c-*jun*; Noradrenaline; Injury/recovery, neuroprotection; Rat (Shen, P.-J. (83) 133)

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Glutamate; Metabotropic glutamate receptor; Excitatory amino acid transporter; Hippocampus; Schizophrenia (Ohnuma, T. (85) 24)

Type II brain 4.1; Membrane skeleton; Immunohistochemistry; Neuronal paranode; The protein 4.1 family (Ohara, R. (85) 41)

Activating protein 1; Electrophoretic mobility shift assay; Photic regulation; Phase dependency; Immunocytochemistry; Suprachiasmatic nucleus (François-Bellan, A.M. (85) 161)

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In situ hybridization histochemistry
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Aging; Circadian Rhythm; Hippocampus; Spatial learning; Psychiatric disorders (Kohen, R. (79) 163)

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Cytokine; Dizocilpine maleate; Glutamate receptor; (*R*)-CPP; Seizure (Eriksson, C. (85) 103)

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Sleep
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Small conductance calcium-activated potassium channel
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Sodium channel
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Promoter; Transcriptional regulation (Schade, S.D. (81) 187)

PC 12; c-Jun; Survival; Differentiation; JunB; AP-1 (Dragunow, M. (83) 20)

Solution-phase RT-PCR
PACAP; PAC_1 receptor; Alternative splicing; G-protein-coupled receptor; In situ RT-PCR (Zhou, C.J. (75) 150)

Somatosensory cortex
Brain-derived neurotrophic factor; Kainic acid; Pentylenetetrazol; Gene regulation; Hippocampus; Barrel cortex (Nanda, S.A. (78) 1)

Somatostatin receptor
Immunohistochemistry; Human brain; Localisation (Selmer, I.-S. (82) 114)

Sox4
Sox11; Neural tube; Brain; *Sox4* null mutant (Cheung, M. (79) 180)

***Sox4* null mutant**
Sox4; *Sox11*; Neural tube; Brain (Cheung, M. (79) 180)

Sox10
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Sox11
Sox4; Neural tube; Brain; *Sox4* null mutant (Cheung, M. (79) 180)

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Spatial learning
In situ hybridization histochemistry; Aging; Circadian Rhythm; Hippocampus; Psychiatric disorders (Kohen, R. (79) 163)

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Sphingosine 1-phosphate
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Zic1 gene expression; Vestibulocochlear nucleus; Neural development; Dorso-ventral axis (Aruga, J. (78) 15

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AMPA; Neurotransmitter; Receptor subunit; Visual pathway (Pires, R.S. (76) 341)

D2 splice variant
Dopamine receptor; D2 mRNA; $D2_{Longest}$; Psychosis (Liu, I.S.C. (77) 281)

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Stroke; Neurodegeneration; Neuronal receptor; Transcription (Sun, H.B. (84) 146)

Splicing variants
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Spontaneous expression
Suprachiasmatic nucleus; Circadian rhythm; *junB*; Light; Tyrphostin; Genistein (Dong, Y. (77) 29)

Spreading depression
Focal cerebrocortical lesion; NGFI-A, c-*fos*, c-*jun*; Noradrenaline; Injury/recovery, neuroprotection; In situ hybridization; Rat (Shen, P.-J. (83) 133)

Src
Tyrosine; Phosphorylation; G protein; Internalization; Immunoprecipitation (Kramer, H.K. (79) 55)

Stat3
Jak2; PSD; Synaptic plasticity; Gene expression (Murata, S. (78) 80)

Status epilepticus
AP-1; DeltaFosB; Epilepsy; Neuronal plasticity; Serum response factor; Pilocarpine (Morris, T.A. (79) 138)

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Stress
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Hypothalamic–pituitary–adrenal; Gene expression (Follesa, P. (84) 52)

ER stress
Ire1α; UPR; Alzheimer's disease; Neuro2a (Miyoshi, K. (85) 68)

Stress protein
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Stress response
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Endoplasmic reticulum; Glucose regulated protein; Homocysteine toxicity; Hsp70; Neuronal cell culture (Althausen, S. (84) 32)

Striatal cholinergic neuron
CaM-kinase phosphatase; CaM-kinases; Protein phosphatase; Post synaptic density; Immunohistochemistry (Nakamura, Y. (77) 76)

Striatum
Immediate early gene; Hippocampus; Amygdala (Radulovic, J. (75) 271)

Brain-derived neurotrophic factor; 5,7-Dihydroxytryptamine; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Gene therapy; Serotonin; Dopamine (Frechilla, D. (76) 306)

α-Actinin-2; Glutamate receptor; NMDA receptor; Localization; Immunoprecipitation (Dunah, A.W. (79) 77)

Selenium; Substantia nigra; Tyrosine hydroxylase; Dopamine transporter; Glutathione peroxidase (Romero-Ramos, M. (84) 7)

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Excitotoxicity; HEK cells; Transfection (Anegawa, N.J. (77) 163)

Poly (ADP-ribose) polymerase; PARP; Gene expression; Ischemia; Hippocampus; Apoptosis; DNA repair (Liu, J. (80) 7)

Neurodegeneration; Neuronal receptor; Transcription; Splicing (Sun, H.B. (84) 146)

Alzheimer's disease; AP-1; Apoptosis; Cerebral cortex; Nuclear factor κB (Camandola, S. (85) 53)

Subcellular localization
Coxsackievirus and adenovirus receptor; Nerve growth cone; Adhesion molecule; In situ hybridization (Honda, T. (77) 19)

Otx2; Paired homeodomain proteins; Development; Retina; Cell fate (Baas, D. (78) 26)

Mouse models; Sensory loss/obesity syndromes; Tubby gene family; Immunohistochemistry (He, W. (81) 109)

Submandibular gland
$P2Y_1$ antiserum; Optic nerve; Brain; Cerebellum; Corpus callosum (Morán-Jiménez, M.-J. (78) 50)

Substance P
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Cocaine self-administration; Gene expression; In situ hybridisation histochemistry; Monoamine transporter; Enkephalin (Arroyo, M. (83) 107)

Substantia nigra
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Dopamine receptors; Nurr1 (Tseng, K.Y. (80) 1)

Selenium; Striatum; Tyrosine hydroxylase; Dopamine transporter; Glutathione peroxidase (Romero-Ramos, M. (84) 7)

Nurr1; Dopamine; Cholecystokinin; DiI; Ventral tegmental area (Witta, J. (84) 67)

Substrate-induced efflux
Uptake; Rotating disk electrode voltammetry; Mutagenesis; Serine; Amphetamine (Chen, N. (75) 208)

Subtractive hybridization
Grid analysis; cDNA; Magnocellular; Parvocellular; Visual cortex (Prasad, S.S. (82) 11)

α7 subunit
Neuronal nicotinic receptor; Receptor assembly; Human adenovirus; α4β2 receptor; Cell-specific assembly factor (Sweileh, W. (75) 293)

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$GABA_A$ receptor; Cocaine; [^{35}S]TBPS binding; Time course (Yamaguchi, M. (81) 155)

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Superoxide dismutase
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Supporting cell
Sox10; Inner ear; Cochlea; Organ of Corti; Otic vesicle (Watanabe, K.-i. (84) 141)

Suprachiasmatic nucleus
Circadian rhythm; *junB*; Spontaneous expression; Light; Tyrphostin; Genistein (Dong, Y. (77) 29)

Activating protein 1; Electrophoretic mobility shift assay; Photic regulation; Phase dependency; Immunocytochemistry; In situ hybridization (François-Bellan, A.M. (85) 161)

Survival
PC 12; c-Jun; Differentiation; Sodium channel; JunB; AP-1 (Dragunow, M. (83) 20)

Sustained facilitation
Nefiracetam; Anti-dementia drug; Nicotinic acetylcholine receptor; Protein kinase C; Glutamate release; Hippocampal synaptic transmission (Nishizaki, T. (80) 53)

SH-SY5Y cells
Apoptosis; Differentiation; Tyrosine kinase; Neuroblastoma (Raghunath, M. (77) 151)

SH-SY5Y neuroblastoma
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Sympathetic neuron
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Hsp70; Hsp27; Stress response; Hyperthermia; HO-1 (Bechtold, D.A. (75) 309)

Rat; Facial nerve; Axotomy; Post-synaptic density-95; Carboxy-terminal PDZ ligand of neuronal nitric oxide synthase; Neuronal nitric oxide synthase (Che, Y.H. (76) 325)

Synapsin
NG108-15; Ca^{2+} imaging; FM1-43; Synaptic vesicle recycling; ATP release (Sugiyama, T. (85) 133)

Synaptic plasticity
Stat3; Jak2; PSD; Gene expression (Murata, S. (78) 80)

CaMKII; Photoreceptor; Retina; CPEB (Liu, L.O. (82) 150)

Synaptic terminals
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Synaptic vesicle recycling
Synapsin; NG108-15; Ca^{2+} imaging; FM1-43; ATP release (Sugiyama, T. (85) 133

Synaptogenesis
Neuronal culture; Glial cell; Cell contact; Tetrodotoxin; RNA expression (Lesuisse, C. (81) 92)

Syntaxin
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Synuclein
Differential display; Plasticity (Kholodilov, N.G. (75) 281)

3T3 cells
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Tandem pore domain
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Taqman mRNA analysis
Potassium channel; Tandem pore domain; Degenerate PCR; Cerebellum; Human (Chapman, C.G. (82) 74)

Tau protein
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[^{35}S]TBPS binding
$GABA_A$ receptor; Cocaine; Subunit mRNA; Time course (Yamaguchi, M. (81) 155)

Temporal lobe epilepsy
NMDA receptor; NMDAR1 subunit; Alternative splicing; Human brain (Musshoff, U. (76) 377)

Tetracycline-responsive transactivator
Neural crest; Neurite; Lef-1/Tcf (Chou, A.H. (77) 232)

Tetrahydrobiopterin
Pterin-4α-carbinolamine dehydratase; Rat brain; Catecholamine; Immunohistochemistry; Tyrosine hydroxylase (Depaepe, V. (75) 76)

Tetrodotoxin
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Neuronal culture; Synaptogenesis; Glial cell; Cell contact; RNA expression (Lesuisse, C. (81) 92)

Thalamus
Calcium channel; Absence epilepsy; In situ hybridization (Talley, E.M. (75) 159

Metabotropic glutamate receptors; Brainstem; Monoarthritis; Pain; In situ hybridisation (Lourenço Neto, F. (81) 140)

THC
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The protein 4.1 family
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Thioltransferase
Thiol disulfide oxidoreductase; Oxidative stress; Brain; Glutathione; Human (Balijepalli, S. (85) 123)

Thioredoxin
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Thyroid hormone
RC3/neurogranin; Brain development; Cerebral cortex (Dowling, A.L.S. (82) 126)

Time course
$GABA_A$ receptor; Cocaine; Subunit mRNA; [^{35}S]TBPS binding (Yamaguchi, M. (81) 155)

TNFα
c-Jun-N-terminal kinase; Cell death; Neuronal cell; H_2O_2 (Mielke, K. (75) 128)

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Desensitization; Signal transduction; G-protein coupled receptor; Dynorphin; Enkephalin; Opiate (Trapaidze, N. (76) 220)

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Sec6; Exocyst; Gene expression; Promoter (Chin, L.-S. (79) 127)

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Transcriptional regulation
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Immediate early genes; Gene knockout mice; Sleep; REM sleep; Circadian rhythm (Shiromani, P.J. (80) 75)

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Methamphetamine; Nucleus; AP-1; CREB; Confocal laser scanning microscopy (Asanuma, M. (80) 237)

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Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Nerve growth factor; Neuronal differentiation; PC12 cells; Promoter (Lahiri, D.K. (77) 185)

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Transgenic mouse
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Transgenic tadpole
Intermediate filament; Gene expression; NF-M; Neuronal intermediate filaments (Roosa, J.R. (82) 35)

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GLAST; Glutamate; Ferric chloride; Epilepsy; Hippocampus (Doi, T. (75) 105)

Traumatic brain injury
Fluid percussion; Chronic ethanol; Neurotrophin; Neurotrophin receptor; In situ hybridization; Neuronal plasticity (Zhang, L. (79) 174

Tubby gene family
Mouse models; Sensory loss/obesity syndromes; Immunohistochemistry; Subcellular localization (He, W. (81) 109)

Tumor Cells
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Tumor necrosis factor
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TUNEL
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Two-dimensional gel electrophoresis
Ca^{2+}/calmodulin-dependent protein kinase II; Postsynaptic density; Phosphorylation; Translocation (Yoshimura, Y. (81) 118)

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Protein kinase C; EGF; EM; Immunocytochemistry (Oyasu, M. (76) 151)

Type 1B astrocyte
Neural cell adhesion molecule; Human optic nerve; Reactive astrocyte; Lamina cribrosa; Glaucoma; Cell culture (Ricard, C.S. (81) 62)

Type II brain 4.1
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Tyrosine
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Tyrosine hydroxylase
Pterin-4α-carbinolamine dehydratase; Rat brain; Catecholamine; Tetrahydrobiopterin; Immunohistochemistry (Depaepe, V. (75) 76)

Phox2a; Noradrenergic phenotype; Development; Plasticity; Transcription factor; Locus coeruleus (Bezin, L. (76) 275)

C-fos; Dopamine-β-hydroxylase; GnRH; Coitus; Brainstem (Caba, M. (77) 222)

Dopamine receptors; Gene expression; Hypoxia (Gross, J. (79) 110)

Apomorphine; Bromocriptine; Nigrostriatal dopaminergic neurons; Feedback inhibition (Iwata, S.-i. (82) 133)

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Tyrphostin
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Ubiquitin
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UNC-51 protein kinase
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Upstream transcription
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Uptake
Substrate-induced efflux; Rotating disk electrode voltammetry; Mutagenesis; Serine; Amphetamine (Chen, N. (75) 208

V

Vasoactive intenstinal polypeptide gene expression
CRE site; Human neuroblastoma cells; Pituitary adenylate cyclase activating peptide; Transcription (Georg, B. (79) 67)

Ventral tegmental area
Tyrosine hydroxylase mRNA; Parkinson's disease; In situ hybridization; Non-melanised neurons (Tong, Z.-Y. (79) 45)

Nurr1; Dopamine; Cholecystokinin; DiI; Substantia nigra (Witta, J. (84) 67)

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Vestibulocochlear nucleus
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Visual development
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NMDA receptor; Neuronal plasticity; Visual development; Critical period (Chen, L. (78) 196)

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Zucker fatty rats
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Basal ganglia
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Calcium channel
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D

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Disease phenotypes
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E

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Endothelial cell
GnRH; LHRH; CRH; Nitric oxide; Median eminence; Hypothalamus (Prevot, V. (34) 27)

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H

Heroin
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Hypothalamus
GnRH; LHRH; CRH; Nitric oxide; Median eminence; Endothelial cell (Prevot, V. (34) 27)

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I

Immune response
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Incentive motivation
Learning; Operant; Pavlovian; Arousal; Aversion; Novelty; Self-stimulation; Feeding; Sexual behavior; Conditioned reinforcement; Locomotion; Avoidance; Latent inhibition (Ikemoto, S. (31) 6)

Inferior olive
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Invertebrates
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Adenosine; Neuroprotection; Hypoxia; Excitotoxicity; Toxicity (De Mendonça, A. (33) 258)

L

Large dense core vesicle
Calcium buffer; Calcium channel; Exocytosis; Releasable pool (Kits, K.S. (33) 78)

Latent inhibition
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Long-term potentiation
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M

Macaca Mulatta
Primary motor cortex; Dorsal premotor cortex; Cerebellum; Purkinje cell; Motor control; Primate; Pursuit tracking; Linear regression (Johnson, M.T.V. (33) 155)

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GnRH; LHRH; CRH; Nitric oxide; Hypothalamus; Endothelial cell (Prevot, V. (34) 27)

MEG
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Memory
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Microvascular disorder
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Microvasculature
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Morphine
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Motor control
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Multifunctional cell
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N

Neural activity
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Neural circuits
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Neurodegeneration
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Neurogenesis
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Neuroimmunity
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Neuromodulator
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Neuronal degeneration
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Neuroplasticity
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Neuroprotection
Adenosine; Hypoxia; Ischemia; Excitotoxicity; Toxicity (De Mendonça, A. (33) 258)

Neurotransplantation
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Neurotrophic factor
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Nitric oxide
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GnRH; LHRH; CRH; Median eminence; Hypothalamus; Endothelial cell (Prevot, V. (34) 27)

Noradrenaline
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Novelty
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O

Ontogeny
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Operant
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P

Parasites
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Parkinson's disease
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Phylogeny
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Pluripotential
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Primary motor cortex
Dorsal premotor cortex; Cerebellum; Purkinje cell; Motor control; *Macaca Mulatta*; Primate; Pursuit tracking; Linear regression (Johnson, M.T.V. (33) 155)

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Progesterone
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Cryosections; Cochlea; Immunocytochemistry; In situ hybridization; Mouse (Whitlon, D.S. (6) 159)

Hemispheric specialization
Attention; Vision; Laterality; Thalamus; Pulvinar (Tabert, M.H. (6) 80)

HGF
c-*met*; Quantification; mRNA; Competitive RT-PCR; Spinal cord (Sun, W. (5) 190)

Hippocampal neuron
Spectrin synthesis; Spectrin turnover (Sangerman, J. (6) 141)

Hippocampus
Squirrel monkey; Single-cell recording; Microdialysis; Ethanol; NMDA (Ludvig, N. (5) 75)

Ischemia; Oxidative stress; Glutathione; 8-ohdG (Park, E.-M. (6) 25)

Human
Neuroimaging; Caudate; Nucleus (Postle, B.R. (5) 57)

C fibre; Neural control of skin blood flow; Pressure strain; Laser Doppler (Fromy, B. (5) 198)

Human adult microglial cells
Immunocytochemistry; Class II major histocompatibility complex antigen; Oligodendrocytes; Phagocytosis; Proliferation (De Groot, C.J.A. (5) 85)

Human brain tissue
DNA-binding protein; Gel shift assay; Transcription factor (Lahiri, D.K. (5) 257)

Hydra
Fatigue; TGF-β; Exhaustive exercise (Manabe, Y. (5) 312)

Hydroxyl radical
Excitotoxicity; Fenton system; Salicylate assay (Teismann, P. (5) 204)

5-Hydroxytryptamine
Praying mantis; Optic lobe (Leitinger, G. (5) 30)

Hypothermia
Trauma; Organotypic hippocampal culture; Cell death; Propidium iodide (Adamchik, Y. (5) 153

I

Immunocytochemical assay
Glucose-6-phosphate dehydrogenase; Cytochemical assay; Brain area; Electron microscopy (Ninfali, P. (5) 115)

Immunocytochemistry
Avidin–biotin complex; Peroxidase; Alkaline phosphatase (McInvale, A.C. (5) 39)

Human adult microglial cells; Class II major histocompatibility complex antigen; Oligodendrocytes; Phagocytosis; Proliferation (De Groot, C.J.A. (5) 85)

Cryosections; Cochlea; In situ hybridization; Hair cell; Mouse (Whitlon, D.S. (6) 159)

Immunohistochemistry
Avulsion; Spinal cord; Motoneuron; Confocal laser scanning microscopy (He, J.-w. (5) 223)

Intrinsic nerve; transplantation; Enzyme histochemistry; Eye chamber; Rat; Neurotransmitter (Adeghate, E. (6) 33)

Protein kinase A; Fluorescent cyclic nucleotide (Mucignat-Caretta, C. (6) 185)

Inferior colliculus
Startle reflex; Electrical stimulation; Deeper layers of superior colliculus; Pedunculopontine tegmental nucleus; Ventral pallidum (Li, L. (5) 67)

Interleukin-1β
mRNA expression; Middle cerebral artery occlusion (MCAO); Ischemic preconditioning; Focal brain ischemia; TaqMan real-time quantitative RT-PCR (Li, X. (5) 211)

Intracerebroventricular injection
Sheep; Tumor necrosis factor α; Lymph; Lymphocyte; Lymphatic (Seabrook, T.J. (6) 172)

Intrinsic nerve
transplantation; Enzyme histochemistry; Immunohistochemistry; Eye chamber; Rat; Neurotransmitter (Adeghate, E. (6) 33)

In vitro
Taste; Development; Circumvallate papillae (Morris-Wiman, J. (5) 172)

In vitro hybridization
Differential display; mRNA; Golfα (Wilkinson, R. (5) 290)

In vitro
Taste; Development; Circumvallate papillae (Morris-Wiman, J. (5) 172)

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Hippocampus; Oxidative stress; Glutathione; 8-ohdG (Park, E.-M. (6) 25)

Ischemic preconditioning
Interleukin-1β; mRNA expression; Middle cerebral artery occlusion (MCAO); Focal brain ischemia; TaqMan real-time quantitative RT-PCR (Li, X. (5) 211)

Isoform
Dementia; Tau protein; mRNA-splicing; Phosphorylation; Two-dimensional gel electrophoresis (Janke, C. (5) 231

L

lacZ
Transcriptional regulation; *cis*-Regulatory element; Transgenic mice (Takahashi, E. (5) 159)

Laser Doppler
C fibre; Neural control of skin blood flow; Pressure strain; Human (Fromy, B. (5) 198)

Laterality
Attention; Vision; Hemispheric specialization; Thalamus; Pulvinar (Tabert, M.H. (6) 80)

Locomotor activity
Microdialysis; Drug of abuse; Monoamine; Amino acid; Mouse (Olive, M.F. (5) 16)

Lymph
Sheep; Tumor necrosis factor α; Lymphocyte; Lymphatic; Intracerebroventricular injection (Seabrook, T.J. (6) 172)

Lymphatic
Sheep; Tumor necrosis factor α; Lymph; Lymphocyte; Intracerebroventricular injection (Seabrook, T.J. (6) 172)

Lymphocyte
Sheep; Tumor necrosis factor α; Lymph; Lymphatic; Intracerebroventricular injection (Seabrook, T.J. (6) 172)

M

Mass spectrometry
Nociceptin–Orphanin FQ (OFQ/N); Capillary high-performance liquid chromatography; Peptidase; Neuropeptide; Metabolism (Suder, P. (6) 40)

mdab1
PCR suppression effect; Cerebral cortex (Usman, N. (5) 243)

Memory
ERP; Face recognition; Face learning (Olivares, E.I. (5) 1)

c-*met*
HGF; Quantification; mRNA; Competitive RT-PCR; Spinal cord (Sun, W. (5) 190)

Metabolism
Nociceptin–Orphanin FQ (OFQ/N); Mass spectrometry; Capillary high-performance liquid chromatography; Peptidase; Neuropeptide (Suder, P. (6) 40

Microdialysis
Drug of abuse; Locomotor activity; Monoamine; Amino acid; Mouse (Olive, M.F. (5) 16)

Squirrel monkey; Hippocampus; Single-cell recording; Ethanol; NMDA (Ludvig, N. (5) 75)

Microglia
Calcium-Green; PrP; Amyloid (Silei, V. (5) 132)

Microtubule-associated protein
Rat brain slice; Protein phosphorylation; Protein phosphatase inhibitor; Alzheimer's disease (Gong, C.-X. (6) 134)

Middle cerebral artery occlusion (MCAO)
Interleukin-1β; mRNA expression; Ischemic preconditioning; Focal brain ischemia; TaqMan real-time quantitative RT-PCR (Li, X. (5) 211)

Mitochondria
Subfractionation; Energy metabolism; Oxidative phosphorylation (Anderson, M.F. (5) 95)

Visualization; Brain slice; [^{15}O]Oxygen; Gastissue autoradiography (Sasaki, T. (5) 146)

Monoamine
Microdialysis; Drug of abuse; Locomotor activity; Amino acid; Mouse (Olive, M.F. (5) 16)

Mononuclear phagocytes
Apoptosis; DNA fragmentation; TUNEL; Double immunofluorescent labeling; EAE (Ray, S.K. (5) 305)

Motoneuron
Avulsion; Spinal cord; Immunohistochemistry; Confocal laser scanning microscopy (He, J.-w. (5) 223)

Mouse
Microdialysis; Drug of abuse; Locomotor activity; Monoamine; Amino acid (Olive, M.F. (5) 16)

Quantitative RT-PCR; Competitive internal standard; Nervous system; G proteins; mRNA developmental expression (Kelleher, K.L. (6) 100)

Sex development; Brain; mRNA differential display; Signal peptide differential display; Representational difference analysis; Semiquantitative RT-PCR (Eriksson, A. (6) 119)

Cryosections; Cochlea; Immunocytochemistry; In situ hybridization; Hair cell (Whitlon, D.S. (6) 159)

mRNA
HGF; c-*met*; Quantification; Competitive RT-PCR; Spinal cord (Sun, W. (5) 190

Differential display; In vitro hybridization; Golfα (Wilkinson, R. (5) 290)

RT-PCR in situ histochemistry; $GABA_A$ receptor; Expression (Hawkins, A.J. (6) 47)

mRNA developmental expression
Quantitative RT-PCR; Competitive internal standard; Mouse; Nervous system; G proteins (Kelleher, K.L. (6) 100)

mRNA differential display
Sex development; Brain; Mouse; Signal peptide differential display; Representational difference analysis; Semiquantitative RT-PCR (Eriksson, A. (6) 119)

mRNA expression
Interleukin-1β; Middle cerebral artery occlusion (MCAO); Ischemic preconditioning; Focal brain ischemia; TaqMan real-time quantitative RT-PCR (Li, X. (5) 211)

mRNA-splicing
Dementia; Tau protein; Isoform; Phosphorylation; Two-dimensional gel electrophoresis (Janke, C. (5) 231)

Muscarinic receptor
Sensory neuron; In situ hybridization; Biotinyl tyramide; Signal amplification (Tata, A.M. (6) 178)

N

NADPH
Penumbra; Vascular anomaly; Biliverdin reductase; Antioxidant (Panahian, N. (6) 53)

Neglect
Transcranial magnetic stimulation; Extinction (Oliveri, M. (5) 25)

Nervous system
Quantitative RT-PCR; Competitive internal standard; Mouse; G proteins; mRNA developmental expression (Kelleher, K.L. (6) 100)

Neural control of skin blood flow
C fibre; Pressure strain; Laser Doppler; Human (Fromy, B. (5) 198)

Neurite outgrowth
Cell-culture; P19 neuron; Cell survival; Cell attachment (Bledi, Y. (5) 282)

Neuroanatomical tracing
Fos immunocytochemistry; Biotinylated dextran amine; Sensorimotor cortex; Brainstem; Cardiovascular (Sequeira, H. (5) 49)

Fos immunocytochemistry; Cholera toxin B subunit immunocytochemistry; Chemical stimulation; Spinal cord; Adrenal preganglionic neuron (Leman, S. (5) 298

Neurofilament
Developmental neurobiology; Cortex; Calbindin calretinin; Rat (Luque, J.M. (6) 129)

Neuroimaging
Human; Caudate; Nucleus (Postle, B.R. (5) 57)

Neuron
Acidophilia; Brain pathology; Vanadium acid fuchsin; Toluidine blue; Gill's hematoxylin (Victorov, I.V. (5) 135)

Cellular neurobiology; Cell culture; Fetal rat; Postnatal rat; Defined medium (Kivell, B.M. (6) 91)

Neuronal apoptosis
Cell death; Gene expression; Differential display (Roschier, M. (5) 121)

Neuronal synchronization
Visual cortex; Correlation analysis; Temporal binding; Population coding (Molotchnikoff, S. (6) 148)

Neuropeptide
Nociceptin–Orphanin FQ (OFQ/N); Mass spectrometry; Capillary high-performance liquid chromatography; Peptidase; Metabolism (Suder, P. (6) 40)

Neurotensin internalization
Receptor-mediated endocytosis; Gene transfer; Gene therapy; Transgenic animal (Martinez-Fong, D. (6) 13)

Neurotransmitter
Intrinsic nerve; transplantation; Enzyme histochemistry; Immunohistochemistry; Eye chamber; Rat (Adeghate, E. (6) 33)

Neurotrophin
Ciliary neurotrophic factor; Nucleus; Astrocytes, Xenopus oocyte (Bajetto, A. (5) 273)

NMDA
Squirrel monkey; Hippocampus; Single-cell recording; Microdialysis; Ethanol (Ludvig, N. (5) 75)

Nociceptin–Orphanin FQ (OFQ/N)
Mass spectrometry; Capillary high-performance liquid chromatography; Peptidase; Neuropeptide; Metabolism (Suder, P. (6) 40)

Non-anesthetized adult/pup rat
Cerebrospinal fluid; Cisterna magna (Consiglio, A.R. (5) 109)

Nucleus
Neuroimaging; Human; Caudate (Postle, B.R. (5) 57)

Ciliary neurotrophic factor; Astrocytes, Xenopus oocyte; Neurotrophin (Bajetto, A. (5) 273

O

8-ohdG
Ischemia; Hippocampus; Oxidative stress; Glutathione (Park, E.-M. (6) 25)

Oligodendrocytes
Human adult microglial cells; Immunocytochemistry; Class II major histocompatibility complex antigen; Phagocytosis; Proliferation (De Groot, C.J.A. (5) 85)

Optic lobe
Praying mantis; 5-Hydroxytryptamine (Leitinger, G. (5) 30)

Organotypic hippocampal culture
Trauma; Hypothermia; Cell death; Propidium iodide (Adamchik, Y. (5) 153)

Oxidative phosphorylation
Mitochondria; Subfractionation; Energy metabolism (Anderson, M.F. (5) 95)

Oxidative stress
Xanthine oxidase; Cultured neuron; Glutamate neurotoxicity (Atlante, A. (6) 1)

Ischemia; Hippocampus; Glutathione; 8-ohdG (Park, E.-M. (6) 25)

[^{15}O]*Oxygen*
Visualization; Brain slice; Mitochondria; Gas-tissue autoradiography (Sasaki, T. (5) 146)

P

P19 neuron
Cell-culture; Cell survival; Cell attachment; Neurite outgrowth (Bledi, Y. (5) 282)

P53
Eye; Rodent; ELISA; CAT-reporter (Weisinger, G. (6) 71)

PACAP 1–38
PC12; Survival; Serum deprivation; Resazurin (Magnani, E. (5) 266)

PC12
Survival; Serum deprivation; Resazurin; PACAP 1–38 (Magnani, E. (5) 266)

^{31}P-NMR
AMPA receptor; Cyclic-AMP-dependent protein kinase; Glutamate receptor; GST; Phosphorylation (Hirai, H. (5) 182)

RT-PCR in situ histochemistry
$GABA_A$ receptor; mRNA; Expression (Hawkins, A.J. (6) 47

PCR suppression effect
Cerebral cortex; *mdab1* (Usman, N. (5) 243)

Pedunculopontine tegmental nucleus
Startle reflex; Electrical stimulation; Inferior colliculus; Deeper layers of superior colliculus; Ventral pallidum (Li, L. (5) 67)

Penumbra
NADPH; Vascular anomaly; Biliverdin reductase; Antioxidant (Panahian, N. (6) 53)

Peptidase
Nociceptin–Orphanin FQ (OFQ/N); Mass spectrometry; Capillary high-performance liquid chromatography; Neuropeptide; Metabolism (Suder, P. (6) 40)

Permeability
Brain; Cell culture; Porcine; Retinoids; Transport (Franke, H. (5) 248)

Peroxidase
Immunocytochemistry; Avidin–biotin complex; Alkaline phosphatase (McInvale, A.C. (5) 39)

PET (positron emission tomography)
Reading; ROI (region of interest); Statistical parametric mapping; Conjunction analysis (Sakurai, Y. (6) 167)

Phagocytosis
Human adult microglial cells; Immunocytochemistry; Class II major histocompatibility complex antigen; Oligodendrocytes; Proliferation (De Groot, C.J.A. (5) 85)

Phosphorylation
AMPA receptor; Cyclic-AMP-dependent protein kinase; Glutamate receptor; GST; ^{31}P-NMR (Hirai, H. (5) 182)

Dementia; Tau protein; Isoform; mRNA-splicing; Two-dimensional gel electrophoresis (Janke, C. (5) 231)

Population coding
Neuronal synchronization; Visual cortex; Correlation analysis; Temporal binding (Molotchnikoff, S. (6) 148)

Porcine
Brain; Cell culture; Permeability; Retinoids; Transport (Franke, H. (5) 248)

Postnatal rat
Cellular neurobiology; Cell culture; Fetal rat; Defined medium; Neuron (Kivell, B.M. (6) 91)

Praying mantis
Optic lobe; 5-Hydroxytryptamine (Leitinger, G. (5) 30)

Pressure strain
C fibre; Neural control of skin blood flow; Laser Doppler; Human (Fromy, B. (5) 198

Proliferation
Human adult microglial cells; Immunocytochemistry; Class II major histocompatibility complex antigen; Oligodendrocytes; Phagocytosis (De Groot, C.J.A. (5) 85)

Promoter
Amyloid precursor protein (APP) gene; DNA methylcytosine; Brain (Nagane, Y. (5) 167)

Propidium iodide
Trauma; Organotypic hippocampal culture; Hypothermia; Cell death (Adamchik, Y. (5) 153)

Protein kinase A
Immunohistochemistry; Fluorescent cyclic nucleotide (Mucignat-Caretta, C. (6) 185)

Protein phosphatase inhibitor
Rat brain slice; Protein phosphorylation; Microtubule-associated protein; Alzheimer's disease (Gong, C.-X. (6) 134)

Protein phosphorylation
Rat brain slice; Microtubule-associated protein; Protein phosphatase inhibitor; Alzheimer's disease (Gong, C.-X. (6) 134)

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Quantitative RT-PCR; Competitive internal standard; Mouse; Nervous system; mRNA developmental expression (Kelleher, K.L. (6) 100)

PrP
Calcium-Green; Amyloid; Microglia (Silei, V. (5) 132)

Pulvinar
Attention; Vision; Hemispheric specialization; Laterality; Thalamus (Tabert, M.H. (6) 80)

Q

Quantification
HGF; c-*met*; mRNA; Competitive RT-PCR; Spinal cord (Sun, W. (5) 190)

Quantitative RT-PCR
Competitive internal standard; Mouse; Nervous system; G proteins; mRNA developmental expression (Kelleher, K.L. (6) 100)

R

Rat
Intrinsic nerve; transplantation; Enzyme histochemistry; Immunohistochemistry; Eye chamber; Neurotransmitter (Adeghate, E. (6) 33)

Developmental neurobiology; Cortex; Neurofilament; Calbindin calretinin (Luque, J.M. (6) 129)

Rat brain slice
Protein phosphorylation; Microtubule-associated protein; Protein phosphatase inhibitor; Alzheimer's disease (Gong, C.-X. (6) 134)

Reading
PET (positron emission tomography); ROI (region of interest); Statistical parametric mapping; Conjunction analysis (Sakurai, Y. (6) 167)

Receptor autoradiography
β-adrenoceptor; Avian brain (Revilla, R. (5) 140)

Receptor-mediated endocytosis
Neurotensin internalization; Gene transfer; Gene therapy; Transgenic animal (Martinez-Fong, D. (6) 13)

Reflectance imaging
Somatosensory evoked potential; Thinned skull cranial window; Blood–fluorocarbon substitution (Nomura, Y. (5) 10)

Representational difference analysis
Sex development; Brain; Mouse; mRNA differential display; Signal peptide differential display; Semiquantitative RT-PCR (Eriksson, A. (6) 119)

Resazurin
PC12; Survival; Serum deprivation; PACAP 1–38 (Magnani, E. (5) 266)

Retinoids
Brain; Cell culture; Permeability; Porcine; Transport (Franke, H. (5) 248)

Rodent
Eye; P53; ELISA; CAT-reporter (Weisinger, G. (6) 71)

ROI (region of interest)
PET (positron emission tomography); Reading; Statistical parametric mapping; Conjunction analysis (Sakurai, Y. (6) 167)

S

S100B
Cell permeabilization; Astrocyte; Trypan blue; ELISA; Digitonin (Tramontina, F. (6) 86)

Salicylate assay
Hydroxyl radical; Excitotoxicity; Fenton system (Teismann, P. (5) 204

Semiquantitative RT-PCR
Sex development; Brain; Mouse; mRNA differential display; Signal peptide differential display; Representational difference analysis (Eriksson, A. (6) 119)

Sensorimotor cortex
Fos immunocytochemistry; Biotinylated dextran amine; Neuroanatomical tracing; Brainstem; Cardiovascular (Sequeira, H. (5) 49)

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Muscarinic receptor; In situ hybridization; Biotinyl tyramide; Signal amplification (Tata, A.M. (6) 178)

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PC12; Survival; Resazurin; PACAP 1–38 (Magnani, E. (5) 266)

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Brain; Mouse; mRNA differential display; Signal peptide differential display; Representational difference analysis; Semiquantitative RT-PCR (Eriksson, A. (6) 119)

Sheep
Tumor necrosis factor α; Lymph; Lymphocyte; Lymphatic; Intracerebroventricular injection (Seabrook, T.J. (6) 172)

Signal amplification
Muscarinic receptor; Sensory neuron; In situ hybridization; Biotinyl tyramide (Tata, A.M. (6) 178)

Signal peptide differential display
Sex development; Brain; Mouse; mRNA differential display; Representational difference analysis; Semiquantitative RT-PCR (Eriksson, A. (6) 119)

Single-cell recording
Squirrel monkey; Hippocampus; Microdialysis; Ethanol; NMDA (Ludvig, N. (5) 75)

In situ hybridization
Cryosections; Cochlea; Immunocytochemistry; Hair cell; Mouse (Whitlon, D.S. (6) 159)

Muscarinic receptor; Sensory neuron; Biotinyl tyramide; Signal amplification (Tata, A.M. (6) 178)

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Thinned skull cranial window; Blood–fluorocarbon substitution; Reflectance imaging (Nomura, Y. (5) 10)

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Hippocampus; Single-cell recording; Microdialysis; Ethanol; NMDA (Ludvig, N. (5) 75)

Startle reflex
Electrical stimulation; Inferior colliculus; Deeper layers of superior colliculus; Pedunculopontine tegmental nucleus; Ventral pallidum (Li, L. (5) 67)

Statistical parametric mapping
PET (positron emission tomography); Reading; ROI (region of interest); Conjunction analysis (Sakurai, Y. (6) 167)

Subfractionation
Mitochondria; Energy metabolism; Oxidative phosphorylation (Anderson, M.F. (5) 95)

Survival
PC12; Serum deprivation; Resazurin; PACAP 1–38 (Magnani, E. (5) 266)

Synaptic vesicle
Ca^{2+}/H^{+} antiport; Ca^{2+} uptake; Brain cortex (Gonçalves, P.P. (5) 102)

T

TaqMan real-time quantitative RT-PCR
Interleukin-1β; mRNA expression; Middle cerebral artery occlusion (MCAO); Ischemic preconditioning; Focal brain ischemia (Li, X. (5) 211)

Taste
Development; Circumvallate papillae; In vitro (Morris-Wiman, J. (5) 172)

Tau protein
Dementia; Isoform; mRNA-splicing; Phosphorylation; Two-dimensional gel electrophoresis (Janke, C. (5) 231)

Temporal binding
Neuronal synchronization; Visual cortex; Correlation analysis; Population coding (Molotchnikoff, S. (6) 148)

TGF-β
Fatigue; Hydra; Exhaustive exercise (Manabe, Y. (5) 312

Thalamus
Attention; Vision; Hemispheric specialization; Laterality; Pulvinar (Tabert, M.H. (6) 80)

Thinned skull cranial window
Somatosensory evoked potential; Blood–fluorocarbon substitution; Reflectance imaging (Nomura, Y. (5) 10)

Toluidine blue
Acidophilia; Brain pathology; Neuron; Vanadium acid fuchsin; Gill's hematoxylin (Victorov, I.V. (5) 135)

Transcranial magnetic stimulation
Neglect; Extinction (Oliveri, M. (5) 25)

Transcriptional regulation
lacZ; *cis*-Regulatory element; Transgenic mice (Takahashi, E. (5) 159)

Transcription factor
DNA-binding protein; Gel shift assay; Human brain tissue (Lahiri, D.K. (5) 257)

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Transport
Brain; Cell culture; Permeability; Porcine; Retinoids (Franke, H. (5) 248)

Trauma
Organotypic hippocampal culture; Hypothermia; Cell death; Propidium iodide (Adamchik, Y. (5) 153

Trypan blue
Cell permeabilization; Astrocyte; S100B; ELISA; Digitonin (Tramontina, F. (6) 86)

Tryptophan-free diet
Brain serotonin release; Behavior (Fadda, F. (5) 219)

Tumor necrosis factor α
Sheep; Lymph; Lymphocyte; Lymphatic; Intracerebroventricular injection (Seabrook, T.J. (6) 172)

TUNEL
Apoptosis; DNA fragmentation; Double immunofluorescent labeling; Mononuclear phagocytes; EAE (Ray, S.K. (5) 305)

Two-dimensional gel electrophoresis
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Acidophilia; Brain pathology; Neuron; Toluidine blue; Gill's hematoxylin (Victorov, I.V. (5) 135)

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Penumbra; NADPH; Biliverdin reductase; Antioxidant (Panahian, N. (6) 53)

Ventral pallidum
Startle reflex; Electrical stimulation; Inferior colliculus; Deeper layers of superior colliculus; Pedunculopontine tegmental nucleus (Li, L. (5) 67)

Video recording
Behavioral neurobiology; Amplifier; EMG; Walking (Van Eykern, L.A. (6) 108)

Vision
Attention; Hemispheric specialization; Laterality; Thalamus; Pulvinar (Tabert, M.H. (6) 80)

Visual cortex
Neuronal synchronization; Correlation analysis; Temporal binding; Population coding (Molotchnikoff, S. (6) 148)

Visualization
Brain slice; [^{15}O]Oxygen; Mitochondria; Gastissue autoradiography (Sasaki, T. (5) 146)

W

Walking
Behavioral neurobiology; Amplifier; Video recording; EMG (Van Eykern, L.A. (6) 108)

X

Xanthine oxidase
Cultured neuron; Glutamate neurotoxicity; Oxidative stress (Atlante, A. (6) 1)

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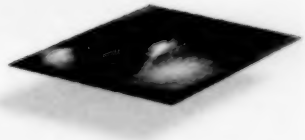

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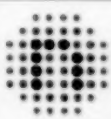

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